Combination Chart

This combination chart shows which modes can be used together.

☆	means that these modes can be used together.
X	means that these modes cannot be used together.
*1	means that these modes cannot be used together (the function chosen second takes priority)
*2	means that these modes cannot be used together (the function chosen first takes priority)

		Function chosen second																												
		Letter, Photo, Letter/Photo, Pencil, Tint mode	**Economy mode**	**Auto Cycle**	**Preset Reduce/Enlarge**	**Zoom**	**Auto Magnification Selection**	**Directional Magnification (%)**	**Directional Magnification (size)**	**Combine Originals (2 Images on one sheet)**	**Combine Originals (4 Images on one sheet)**	**Memory Combine mode (4 Originals)**	**Memory Combine mode (8 Originals)**	**Memory Combine mode (16 Originals)**	**Edge Erase**	**All Class mode**	**Auto Class mode**	**Manual Class mode**	**Class mode**	**Job Separation**	**Overlay**	**Form**	**Storage Overlay**	**Date Stamp**	**Page Stamp**	**Stamp**	**Repeat**	**Make-up**	**Original Storage**	**Skip Feed**	**On Line**
Function specified earlier	Letter, Photo, Letter/Photo, Pencil, Tint mode	--	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	*1	☆	*1
	Economy mode	☆	--	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
	Auto Cycle	☆	☆	--	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
	Preset Reduce/Enlarge	☆	☆	☆	--	*1	*1	*1	*1	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	☆	*1
	Zoom	☆	☆	☆	*1	--	*1	*1	*1	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	☆	*1
	Auto Magnification Selection	☆	☆	☆	*1	*1	--	*1	*1	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	☆	*1	☆	*1

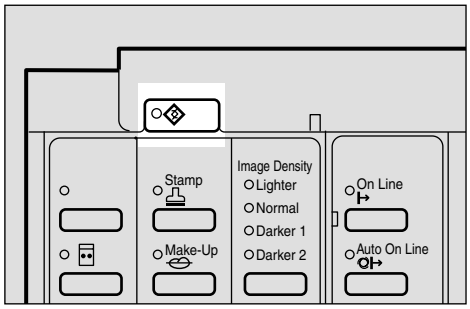
		Function chosen second																														
		Letter, Photo, Letter/Photo, Pencil, Tint mode	**Economy mode**	**Auto Cycle**	**Preset Reduce/Enlarge**	**Zoom**	**Auto Magnification Selection**	**Directional Magnification (%)**	**Directional Magnification (size)**	**Combine Originals (2 Images on one sheet)**	**Combine Originals (4 Images on one sheet)**	**Memory Combine mode (4 Originals)**	**Memory Combine mode (8 Originals)**	**Memory Combine mode (16 Originals)**	**Edge Erase**	**All Class mode**	**Auto Class mode**	**Manual Class mode**	**Class mode**	**Job Separation**	**Overlay**	**Form**	**Storage Overlay**	**Date Stamp**	**Page Stamp**	**Stamp**	**Repeat**	**Make-up**	**Original Storage**	**Skip Feed**	**On Line**
Function specified earlier	Directional Magnification (%)	☆	☆	☆	*1	*1	*1	--	*1	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	☆	*1
	Directional Magnification (size)	☆	☆	☆	*1	*1	*1	*1	--	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	☆	*1
	Combine Originals (2 Images on one sheet)	☆	☆	☆	☆	☆	☆	☆	☆	--	*1	*1	*1	*1	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	*2	*1	☆	*2	☆	*1
	Combine Originals (4 Images on one sheet)	☆	☆	☆	☆	☆	☆	☆	☆	*1	--	*1	*1	*1	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	*2	*1	☆	*2	☆	*1
	Memory Combine mode (4 Originals)	☆	☆	☆	☆	☆	☆	☆	☆	*1	*1	--	*1	*1	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	*2	*1	*2	*2	☆	*1
	Memory Combine mode (8 Originals)	☆	☆	☆	☆	☆	☆	☆	☆	*1	*1	*1	--	*1	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	*2	*1	*2	*2	☆	*1
	Memory Combine mode (16 Originals)	☆	☆	☆	☆	☆	☆	☆	☆	*1	*1	*1	*1	--	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	*2	*1	*2	*2	☆	*1
	Edge Erase	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	--	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	☆	*1
	All Class mode	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	--	*1	*1	*1	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1
	Manual Class mode	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	*1	--	*1	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1

Function specified earlier	Function chosen second	Letter, Photo, Letter/Photo, Pencil, Tint mode	Economy mode	Auto Cycle	Preset Reduce/Enlarge	Zoom	Auto Magnification Selection	Directional Magnification (%)	Directional Magnification (size)	Combine Originals (2 Images on one sheet)	Combine Originals (4 Images on one sheet)	Memory Combine mode (4 Originals)	Memory Combine mode (8 Originals)	Memory Combine mode (16 Originals)	Edge Erase	All Class mode	Auto Class mode	Manual Class mode	Class mode	Job Separation	Overlay	Form	Storage Overlay	Date Stamp	Page Stamp	Stamp	Repeat	Make-up	Original Storage	Skip Feed	On Line
Class mode		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1	*1	*1	--	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	*1
Job Separation		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	--	☆	☆	*1	☆	☆	☆	☆	☆	☆	☆	☆
Overlay		☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	☆	☆	☆	--	*1	*1	*2	*2	*2	*2	*2	*2	☆	*1
Form		☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	☆	☆	☆	*1	--	--	*2	*2	*2	*2	*2	*2	☆	*1
Storage Overlay		☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	☆	☆	☆	*1	*1	--	☆	☆	☆	*2	*2	*2	*2	☆	*1
Date Stamp		☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	☆	☆	☆	*2	*2	☆	--	☆	☆	*2	☆	*2	☆	*1
Page Stamp		☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	☆	☆	☆	*2	*2	☆	☆	--	☆	*2	☆	*2	☆	*1
Stamp		☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	☆	☆	☆	☆	☆	☆	*2	*2	*2	☆	☆	--	*2	☆	*2	☆	*1
Repeat		☆	☆	☆	☆	☆	*2	☆	☆	*1	*1	*1	*1	*1	☆	☆	☆	☆	☆	☆	*2	*2	*2	*2	*2	*2	--	*2	*2	☆	*1
Make-up		*2	☆	☆	☆	☆	☆	☆	☆	☆	☆	*2	*2	*2	☆	☆	☆	☆	☆	☆	*1	*1	*2	*2	*2	*2	*2	--	--	☆	*1
Original Storage		*2	☆	☆	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	☆	☆	☆	☆	*2	*2	*2	*2	☆	*2	*2	*2	*2	--	☆	☆	*2
Skip Feed		☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	--	☆
On Line		*2	☆	☆	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	☆	*2	*2	*2	*2	*2	*2	*2	*2	*2	☆	--
Image Rotation		☆	☆	☆	☆	X	☆	X	X	X	X	☆	☆	☆	☆	☆	☆	☆	☆	☆	X	X	X	X	X	X	X	X	X	☆	X

Accessing the User Tools

The user tools allow you to customize various default settings. This section is intended for the machine administrator.

1 **Press the [User Tools] key.**



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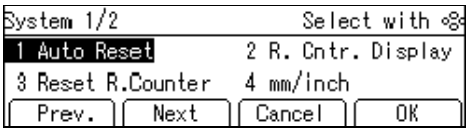
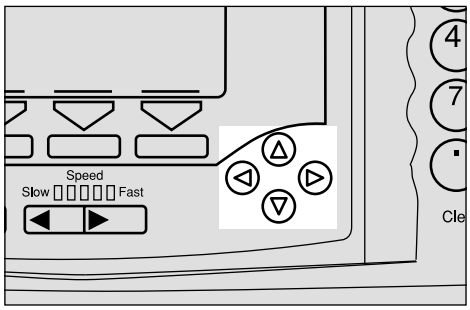
2 **Select the desired user tools menu. See p.143 "User Tools Menu".**



Using the [◁], [▷], [△], or [▽] key

❶ **Search for the desired user tool number (1 to 7) with the [◁], [▷], [△], or [▽] key.**



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Note

❒ **[Next]**: Press to go to the next page.

❒ **[Prev.]**: Press to go back to the previous page.

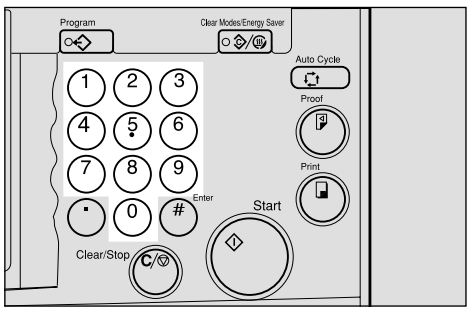
❷ **Press the [OK] key.**

❸ **Search for the desired user tool number of each function with the [◁], [▷], [△], or [▽] key.**

❹ **Press the [OK] key.**

Using the number keys

❶ **Enter the desired user tool number (1 to 7) with the number keys.**



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❷ **Press the [OK] or [#] key.**

❸ **Enter the desired user tool number of each function with the number keys.**

❹ **Press the [OK] or [#] key.**

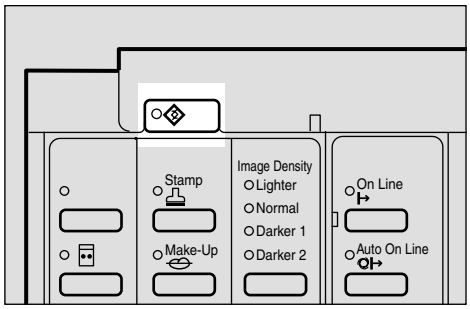
3 **Change the settings by following the instructions on the panel display, and then press the [OK] key.**

Note

❒ To change the value entered, press the 【Clear/Stop】 key before pressing the **[OK]** key. Then enter the new value.

❒ **[Cancel]**: Press to return to the previous menu without changing any data.

4 **Press the 【User Tools】 key to return to the standby display.**



Note

❒ The settings are not canceled even if the main switch is turned off or the 【Clear Modes/Energy Saver】 key is pressed.

❒ You can also return to the standby display by pressing the **[Cancel]** key.

User Tools Menu

Reference

For accessing the user tools, see p.141 “Accessing the User Tools”.

1. System

No.	Mode	Description
1	Auto Reset	The machine returns to its initial condition automatically after your job is finished. The automatic reset time can be set from 1 to 5 minutes or off (0 minutes). **Note** ❒ Default: *Off*
2	R. Cntr. Display	Use to display the total number of masters and prints. **Note** ❒ A trial print delivered to the paper delivery tray after pressing the 【Start】 key will not be counted.
3	Reset R. Counter	Choose whether the total number of masters and prints is reset. **Note** ❒ Default: *Not clear*
4	mm/inch	Choose the units of measurement shown on the panel display. **Note** ❒ Default: • Metric version: *mm* • Inch version: *inch*
5	Language on LCD	The language used for panel display messages can be selected. **Note** ❒ Default: *English*
6	Time Setting	Use to set the machine's internal clock. **Note** ❒ The clock must be adjusted if you change the clock to daylight saving time/summer time, or return to standard time. **Reference** For setting the clock, see p.156 “1-6 Time Setting”.

No.	Mode	Description
7	Data Print	Use to print out the following data. **Note** ❒ Available settings: • Log Data (Number of prints made, how many times paper misfeeds occur and so on.) • Reset Counters (Number of prints and master made under each user code.) • Store Class (Registered number of students in each class.)
8	Energy Saving	You can set the time until the Energy Saver mode starts. **Note** ❒ Default: *3 Min.* (minutes)

2. Set Operat'n Mode

No.	Mode	Description
1	Min. Quantity	The minimum print quantity can be set between 0 and 9999. Example: If you specify 20 as the minimum number of prints, runs of 20 or more prints will be accepted, print runs of less than 20 prints will not be accepted. **Note** ❒ Default: *0*
2	Max. Quantity	The maximum print quantity can be set between 0 and 9999. **Note** ❒ Default: *9999*
3	CopyCount Display	The counter can be set to show the number of prints made (Up), or the number of prints left to be made (Down). **Note** ❒ Default: *Down*
5	Panel Beeper	Turns the beeper on or off. **Note** ❒ Default: *STD.* (standard) ❒ Available settings: • ALL OFF (The beeper does not sound when you press keys or when warning messages appear on the panel display.) • STD. (When you press a key, the beeper does not sound. When warning messages appear on the panel display, the beeper sounds.) • ALL ON (The beeper sounds when you press a key or when warning messages appear on the panel display.)
6	LCD Contrast	You can adjust the brightness of the panel display.

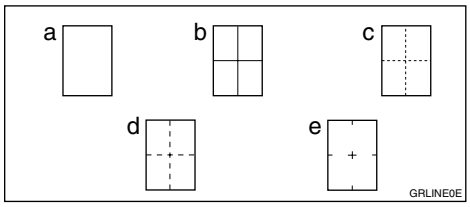
3. Initial Setting

No.	Mode	Description
1	Paper Type	Specifies the paper type at power on. **Note** ❒ Default: *Std.* (Standard)
2	MSTR Makg. Density	Specifies the image density at power on. **Note** ❒ Default: *Std.* (Standard)
3	Original Priority	Specifies the original mode at power on. **Note** ❒ Default: *Letter*
4	Reproduct'n Ratio	Adjust a fixed reproduction ratio between 50 and 200%. **Note** ❒ Default: • Metric version: *71%*, *82%*, *87%*, *93%*, *100%*, *115%*, *122%*, *141%* • Inch version: *65%*, *74%*, *77%*, *93%*, *100%*, *121%*, *129%*, *155%* **Reference** For setting the ratios, see p.156 “3-4 Reproduction Ratio” 3–4 Reproduction ratio.
5	Class Enter No.	Before using All Class or Auto Class mode, register the number of students in each class with this function. **Note** ❒ You can store student numbers for up to 9 grades with 12 classes in each, giving a maximum of 108 classes. Each class can have up to 9999 students. **Reference** For registering the number of students, see p.157 “3-5 Class Enter No.” 3–5 Class NO.
6	LT/Photo Contrast	Specifies the contrast level for Letter/Photo when the power is switched on or after mode settings are cleared. **Note** ❒ Default: *Standard*
7	LT/Photo Priority	Specifies the screen image in Letter/Photo mode when you press the **[Original]** key. **Note** ❒ Default: *Letter*

No.	Mode	Description
8	Photo Contrast	Specifies the contrast level for Photo when the power is switched on or after mode settings are cleared. **Note** ❒ Default: *Standard*
9	Photo(Screen)	Specifies the screen image in Photo mode when you press the **[Original]** key. **Note** ❒ Default: *Standard*
10	Eco.Mode ON/OFF	Specifies whether Economy Mode is set to "On" or "Off" when the power is switched on or after mode settings are cleared. **Note** ❒ Default: *Off*
11	Margin Eras.Area	Adjusts the erase edges margin. **Note** ❒ Default: *2 mm, 0.1"*
12	Ratio Priority	You can set the primary ratio on the display when you press the **[Ratio]** key.

4. Mode Setting

No.	Mode	Description
1	Auto Cycle ON/OFF	Specifies whether Auto Cycle mode is selected at power on. **Note** ❒ Default: *ON*
2	Class Manual Set	Use one original or multiple originals in Manual Class mode. **Note** ❒ Default: *Std.* (One original)
3	Ignore Paper Size	If you are making prints on non-standard paper and the original image does not entirely appear on the print, set paper size detection to "Ignore". The machine will not detect the paper length. **Note** ❒ Default: *Not to ignore*
4	No Orig. Size DF	When you set long originals in the optional document feeder, set original detection to "Ignore". The machine will not detect the original size. **Note** ❒ Default: *Not to ignore*

No.	Mode	Description
5	No Orig. Size	When you place originals of non standard sizes on the exposure glass, set original detection to "Ignore". The machine will not detect the original size. **Note** ❒ Default: *Not to ignore*
6	Background ON/OFF	When you make prints in Photo, Letter/Photo, or Tint mode, the background of the prints might become dirty. Turn Background "On" to improve the clarity of your prints. **Note** ❒ Default: *W/O back. correction* (off)
7	Longer Paper	Use paper longer than 432mm, 17.0". **Note** ❒ Default: *Not to use*
8	Combine	If you select "Automatic (Auto Combine mode)", you can make two or four identical images on one sheet by pressing the **【Combine】** key and **【Start】** key. **Note** ❒ Default: *Normal* (Combine Originals mode) **Reference** For using Auto Combine mode, see p.69 "Auto Combine Mode".
9	Comb. Sep. Line	You can select a separation line in Memory Combine mode. **Note** ❒ Default: *None* ❒ Available settings:  • a = None • b = Solid • c = Broken1 • d = Broken2 • e = CropMarks

No.	Mode	Description
10	Cancel Comb.	Specifies whether Combine Originals or Memory Combine mode is cleared after finishing your print job. **Note** ❒ Default: *Not to cancel*
11	No. of Skip Feed	Specifies the number of drum rotations in Skip Feed mode at power on. You can also select whether you can change the number of drum rotations temporarily when you press the 【Skip Feed】 key. See p.71 “Skip Feed Printing”. **Note** ❒ Default: • Panel display: *Display* • Number of Skip Feed: *2* **Reference** For changing the number of rotations, see p.159 “4-11 No. of Skip Feed”.
12	Idling for Q.start	When you use the Manual Quality Start mode, you can select how many times the drum unit idles. **Note** ❒ Default: *7*
13	Setting Q.start	If the machine is not used for a long period of time, the ink on the drum might dry causing image quality to deteriorate. The Auto Quality Start mode automatically recovers image density quality after a selected time has passed. If Auto Quality Start mode is set to “Not to use”, you can regain print quality by making a few extra prints or you can use the Manual Quality Start mode. **Note** ❒ Default: • Before print: *Yes* • After print: *Yes*
14	No. of Q.start	You can select how many times the drum unit idles after the displayed time periods have passed in Auto Quality Start mode. **Note** ❒ Default: See p.160 “4-14 No. of Q.start”. ❒ To increase the print image density, increase the number of drum rotations, and vice versa. **Reference** For changing the number of idle spins, see p.160 “4-14 No. of Q.start”.

No.	Mode	Description
15	Deflector Angle	You can change the angle of the wing guide depending on the paper type you use. **Note** ❒ Default: *Auto* ❒ Available settings: • Up (Select this setting when standard thickness or thin paper misfeeds at the paper exit section occur frequently.) • Down (Select this setting when A4 – B5, $8^1/_2$" × 11" thick paper is not delivered properly to the paper delivery tray.)
16	Auto Class	When you do not use the Separation mode, you can select the machine's condition after each printing set is fed out to the paper delivery tray. **Note** ❒ Default: *Stop* ❒ Available settings: • Start printing automatically (After the last page of each printing set is fed out to the paper delivery tray, the machine stops for a few seconds. Then, the next cycle begins.) • Stop (After the last page of each printing set is fed out to the paper delivery tray, the machine stops. If you press the 【Print】 key, the next cycle begins.)
17	Auto Separate	Specifies whether Job Separation mode is automatically carried out when you make prints in All Class, Auto Class, Manual Class, or Class mode. **Note** ❒ Default: *ON*
18	Ink/Master Left	Specifies whether you can check the amount of ink and master. **Note** ❒ Default: *OFF* ❒ Available settings: • OFF (You cannot check the remaining amount of ink or master.) • ON (When the remaining amount of ink or master is less than half, the panel display indicates these amounts when you turn on the main switch.) • Check remaining volume (You can see the remaining amounts of ink and master regardless of these amounts.)
19	Type of Paper	When one kind of paper misfeed occur frequently, you can register its paper type in “User1” or “User2”. **Reference** For registering a special paper type, see p.161 “4-19 Type of Paper”.

No.	Mode	Description
20	Auto Rotation	When the direction in which your original is placed differs from that of the paper, the machine automatically rotates the original image by 90° to match the paper direction. You can cancel this setting. **Note** ❒ Default: *ON*
21	Master length	The machine determines the master length according to the number of originals placed in the optional document feeder and the paper sizes. If you wish to use A3/11" × 17" master regardless of the number of originals set and the paper sizes, select "A3". **Note** ❒ Default: *Auto*
27	Cancel Stor.O.lay	Specifies whether settings for Storage Overlay are retained, or not, when a storage overlay job has finished. **Note** ❒ Default: *Not to cancel*
28	Double Feed Warng	Specifies whether a warning is displayed or not when a double feed is detected. **Note** ❒ Default: *OFF*

5. Stamp

No.	Mode	Description
1	Type	You can select the stamp message at power on with the Stamp mode. **Note** ❒ Default: *CONFIDENTIAL*
2	Size	You can edit the preset stamp sizes. **Note** ❒ Default: *Standard* ❒ Adjustment values: • Double size
3	Stamp Density	You can select the style of the stamps. **Note** ❒ Default: *Solid-fill*
4	Stamp Position	You can edit the preset stamp position. **Note** ❒ Default: See p.162 “5-4 Stamp Position”. ❒ Available settings: See p.162 “5-4 Stamp Position”. **Reference** For adjusting the stamp position, see p.162 “5-4 Stamp Position”.
5	Date Style Set	You can select the format of the date stamp. **Note** ❒ Default: *Month Day Year*
6	Date Position Set	You can select the date stamp direction at power on in Date Stamp mode. **Note** ❒ Default: *Upper Left*
7	Position(Date)	You can edit the date stamp position. **Note** ❒ Default: See p.163 “5-7 Position (Date)”. ❒ Available settings: See p.163 “5-7 Position (Date)”. **Reference** For adjusting the date stamp position, see p.163 “5-7 Position (Date)”.

No.	Mode	Description
8	Type(Page)	You can select the page numbering style at power on in Page Stamp mode. **Note** ❒ Default: *P1,P2*
9	Direction(Page)	You can select the page numbering direction at power on in Page Stamp mode. **Note** ❒ Default: • When you select "P1,P2" or "1/5,2/5" with the "Type(Page)" user tool: *Upper Right* • When you select "-1-,-2-" with the "Type(Page)" user tool: *Down Center*
10	Position(Page)	You can edit the page numbering position. **Note** ❒ Default: See p.164 "5-10 Position (Page)". ❒ Available settings: See p.164 "5-10 Position (Page)". **Reference** For adjusting the page numbering position, see p.164 "5-10 Position (Page)".
11	Make/Chg. Pattern	Make your own background pattern in Make-up mode. **Note** ❒ You can edit the 40 preset patterns. **Reference** For changing the background pattern, see p.165 "5-11 Make/Chg. Pattern".

6. Administrator Mode

❖ User Codes

If user codes are turned on, operators must enter their user codes before they can operate the machine. The machine keeps count of the number of copies made under each user code. Turn this function on with the "Set User Code(s)" user tool. You can also turn on Key Operator Code mode so that only the key operator (administrator) can use the functions below.

1	Check Counter	You can check the number of masters and copies made under each user code. **Reference** For checking the number of masters and copies, see p.166 "6-1 Check Counter".
2	Reset Counters	You can clear each or all user code counters. **Note** ❒ Default: *Single* **Reference** For clearing the number of masters and copies, see p.167 "6-2 Reset Counters".
3	Set User Code	Selects User Code mode. For details about User Code mode, see p.153 "6. Administrator Mode" Use Code(s). Enter the key Operator Code if you have already set it. See p.153 "6. Administrator Mode". **Note** ❒ Default: *Not to use*
4	Reg. User Code	You can register user codes. **Note** ❒ Up to 20 user codes (up to 4 digits) can be registered.
5	Chg. User Code	You can change user codes. **Note** ❒ The number of copies made under the old code is added to that made under the new user code. **Reference** For changing the user codes, see p.168 "6-5 Chg. User Code".

6	Del. User Code	You can delete user codes. **Note** ❒ The number of copies made under the deleted code is also deleted. **Reference** For deleting user codes, see p.168 "6-6 Del. User Code".
7	Key Operator Code	Use to turn Key Operator Code mode on or off. **Note** ❒ Default: *Not to use*
8	Reg/Chg Key-OpCode	You can register or change key operator codes. (up to 4 digits)
9	Restrict. Access	In Key Counter mode, you have to set the key counter before making prints. (To turn on Key Counter mode, contact your service representative.) If Key Counter mode is on, Restricted Access is turned on ("To use") automatically. If you turn Restricted Access off ("Not to use"), you can make prints without inserting the key counter. **Note** ❒ Default: *Not to use*

7. On Line Mode

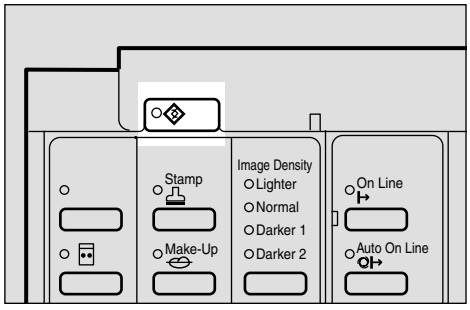
No.	Mode	Description
1	Set aut-O/L def	Specifies whether Auto On Line mode is set to "On" or "Off" when power is switched on or after mode settings are cleared. **Note** ❒ Default: *On*
2	Ppr. Size [Online]	Specifies the paper size when you press the 【On Line】 key. **Note** ❒ Default: *Auto*
3	List/Test Print	Prints the current set content of this machine. **Note** ❒ Default: *System Print*
4	Print PS Errors	Setting for when printing the PS Error List when a PostScript error occurs. **Note** ❒ Default: *Off*

5	IP Address	Sets the IP Address. **Note** ❒ Default: *011.022.033.044* **Reference** See the Printer Reference 1 for information about the IP Address setting.
6	Ethernet Speed	Sets the Ethernet communication speed. **Note** ❒ Default: *Auto*
7	Network	Sets the Network boot. **Note** ❒ Default: *NONE* **Reference** See the Printer Reference 1 for information about the Network boot setting.
8	I/O Timeout	Sets the time to enable the interface after data stops being received. When the time set here is exceeded, it will be possible to receive data from the other interface. **Important** ❒ If the set time is too short, a time out might occur while one data is being received. As a result, data from another interface might cut in and be printed, or the emulation retrieval from half of the data may be activated, and be replaced with a different emulation. **Note** ❒ Default: *30 sec.*
9	I/O Buffer	Sets the capacity of the reception buffer. **Note** ❒ Default: *512KB*
10	Menu Reset	You can reset the factory settings. However, the “IP Address”, “Network”, and the “Ethernet Speed” settings do not change.

User Tool Menus in Detail

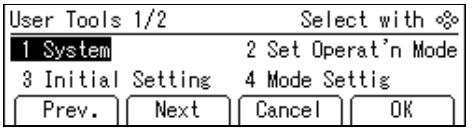
1-6 Time Setting

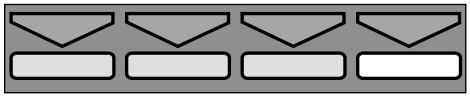
1 Press the 【User Tools】 key.



ZDZS110N

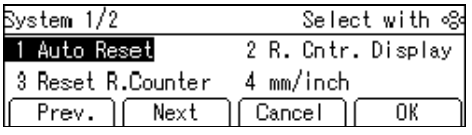
2 Make sure that "1" is selected, and then press the [OK] key.



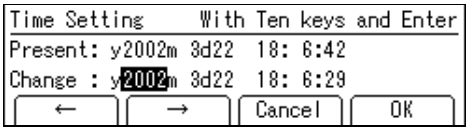


TPES560E

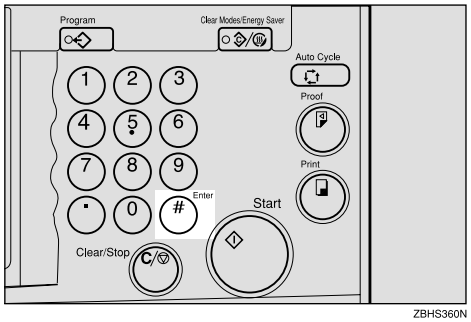
3 Enter 6 with the number keys, and then press the [OK] or 【#】 key.



4 Enter the year with the number keys.



5 Press the 【#】 key.



ZBHS360N

6 Enter the month with the number keys.

7 Press the 【#】 key.

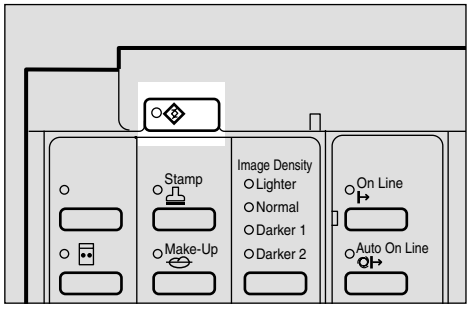
Note

❒ Follow steps **6** and **7** for the "date", "hour", "minute", and "second".

8 Press the [OK] key.

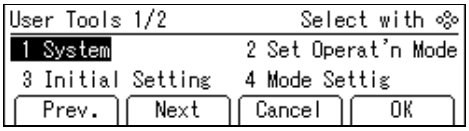
3-4 Reproduction Ratio

1 Press the 【User Tools】 key.

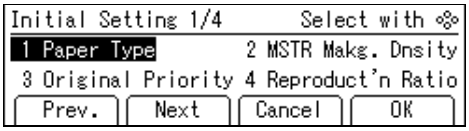


ZDZS110N

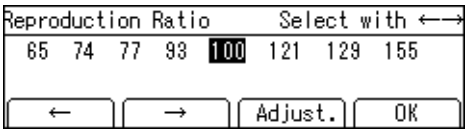
2 Enter 3 with the number keys, and then press the [OK] or [#] key.

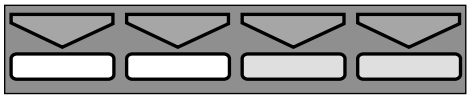


3 Enter 4 with the number keys, and then press the [OK] or [#] key.



4 Select the ratio you want to adjust with the [←] [→] or [◁] [▷] keys.





TPES530E

5 Press the [Adjust.] key.

6 Enter the desired ratio with the [←] [→] or [◁] [▷] keys.

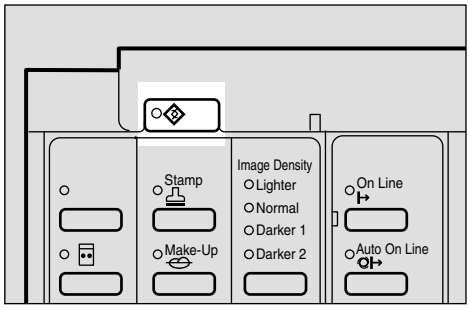
Note

❒ You can also enter the ratio with the number keys.

7 Press the [OK] key twice.

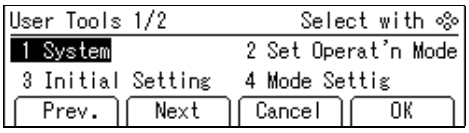
3-5 Class Enter No.

1 Press the [User Tools] key.

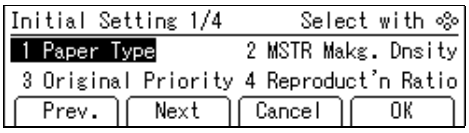


ZDZS110N

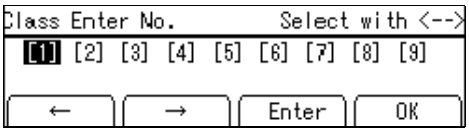
2 Enter 3 with the number keys, and then press the [OK] or [#] key.

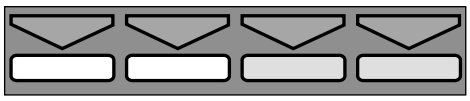


3 Enter 5 with the number keys, and then press the [OK] or [#] key.



4 Select the grade with the [←] [→] or [◁] [▷] keys.

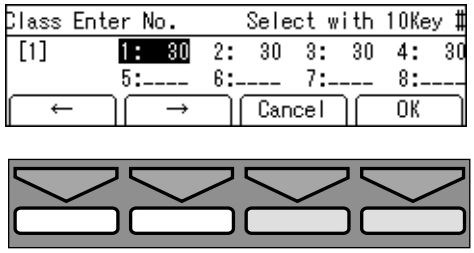




TPES530E

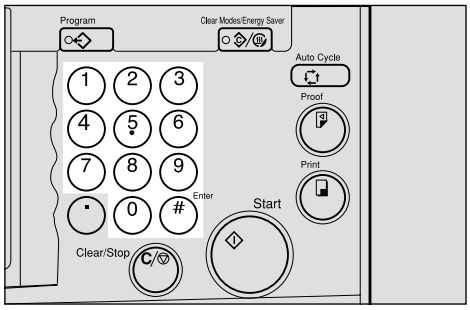
5 Press the [Enter] key.

6 Select the class with the [←] [→] or [◁] [▷] keys.



TPES530E

7 Enter the number of students with the number keys, and then press the [#] key.



ZBHS720N

Note

❒ Repeat steps 6 and 7 until you have finished registering the number of students in each class.

8 Press the [OK] key.

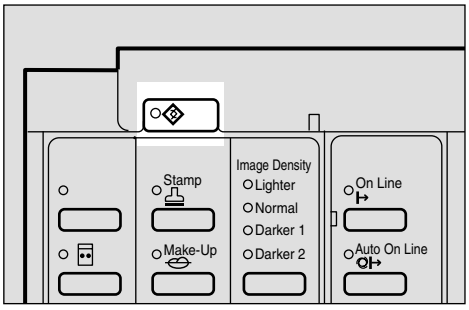
Note

❒ Repeat steps 4 through 8 until you have finished registering the number of students in each class for the each grades.

9 Press the [OK] key.

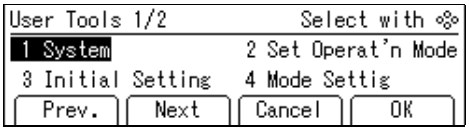
3-11 Margin Erase Area

1 Press the [User Tools] key.

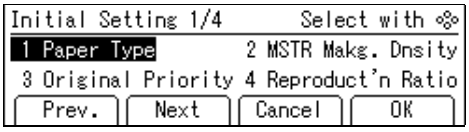


ZDZS110N

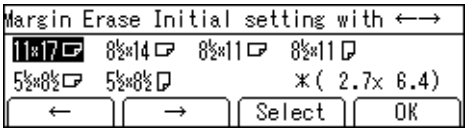
2 Enter 3 with the number keys, and then press the [OK] or [#] key.

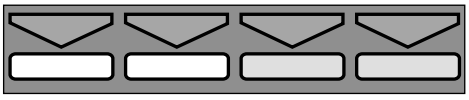


3 Enter 11 with the number keys, and then press the [OK] or [#] key.



4 Select the original size you will use with the [←] [→] or [◁] [▷] keys.





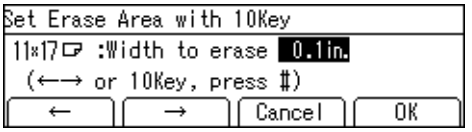
TPES530E

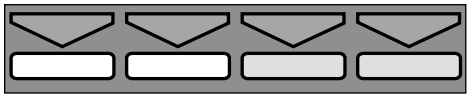
5 Press the [Select] key.

6 **Adjust the erase edge margin.**

If you selected A3 to A6 or 11" × 17" to $5^1/_2$" × $8^1/_2$"

❶ **Adjust the erase edge margin with the [←] [→] or 【◁】【▷】 keys.**





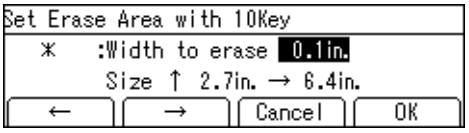
TPES530E

Note

❒ You can also enter the ratio with the number keys and the 【#】 key.

If you selected ✳

❶ **Enter the erase edge margin with the number keys.**



❷ **Press the 【#】 key.**

❸ **Enter the vertical length with the number keys.**

❹ **Press the 【#】 key.**

❺ **Enter the horizontal width with the number keys.**

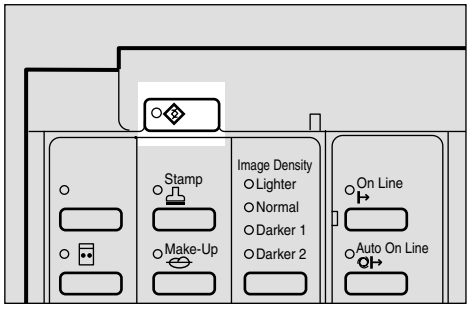
❻ **Press the 【#】 key.**

7 **Press the [OK] key twice.**

4-11 No. of Skip Feed

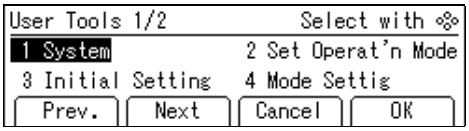
The following procedure explains how to change the number of drum rotations.

1 **Press the 【User Tools】 key.**

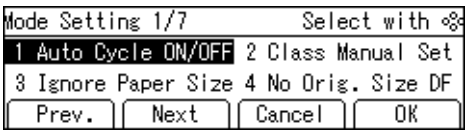


ZDZS110N

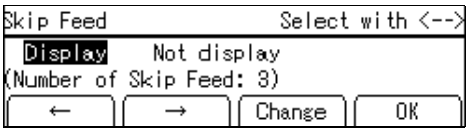
2 **Enter 4 with the number keys, and then press the [OK] or 【#】 key.**

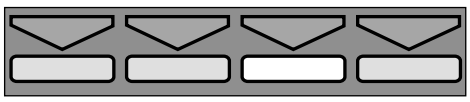


3 **Enter 11 with the number keys, and then press the [OK] or 【#】 key.**



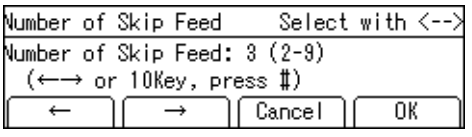
4 **Press the [Change] key.**

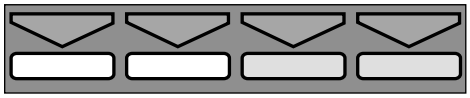




TPES520E

5 **Change the number of drum rotations while one sheet of paper is fed with the [←] [→] or 【◁】【▷】 keys.**





TPES530E

Note

❒ You can also change the number of rotations with the number keys.

6 **Press the [OK] key.**

4-14 No. of Q.start

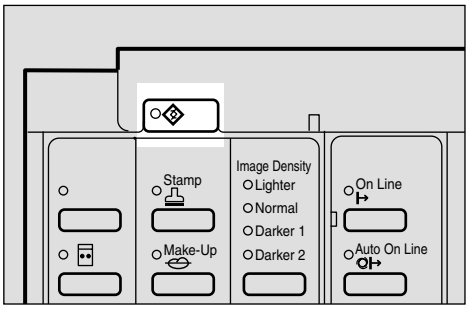
Note

❒ The default settings are as follows.

		Time period			
		0 – 4 hours	4 – 24 hours	24 – 72 hours	More than 72 hours
Temperature	Low Tmp. *1	0	7	7	7
	Normal Tmp. *2	0	5	5	5
	High Tmp. *3	0	5	5	5

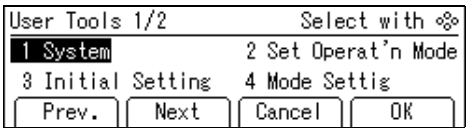
*1 (10 – 15°C, 50 – 59°F)
*2 (15 – 28°C, 59 – 82.4°F)
*3 (28 – 30°C, 82.4 – 86°F)

1 **Press the 【User Tools】 key.**

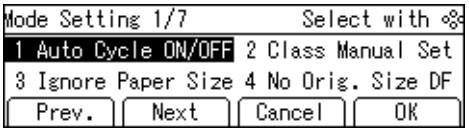


ZDZS110N

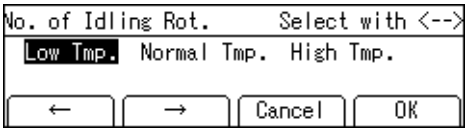
2 **Enter 4 with the number keys, and then press the [OK] or 【#】 key.**

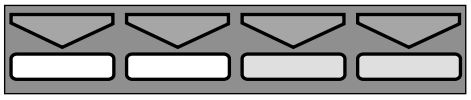


3 **Enter 14 with the number keys, and then press the [OK] or 【#】 key.**



4 **Select the temperature at which you use this machine with the [←] [→] or 【◁】【▷】 keys.**





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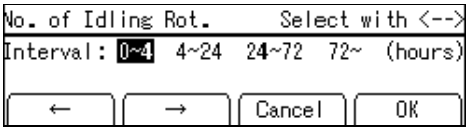
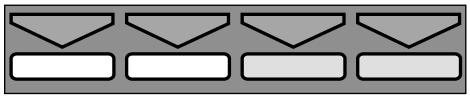
5 **Press the [OK] key.**

6 **Select the time period (hours) the drum unit idles for with the [←] [→] or 【◁】【▷】 keys.**





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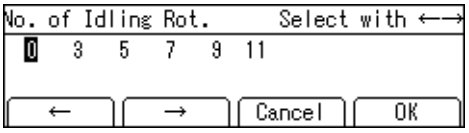
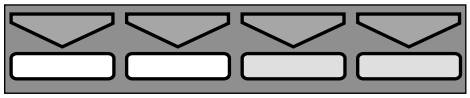
7 **Press the [OK] key.**

8 **Select the number of drum rotations with the [←] [→] or 【◁】【▷】 keys.**





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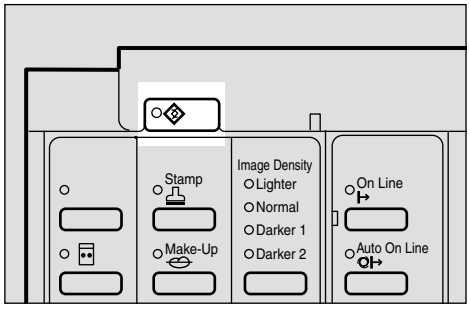
9 **Press the [OK] key.**

4-19 Type of Paper

1 **Press the 【User Tools】 key.**



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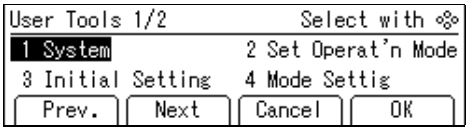
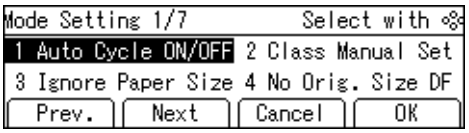
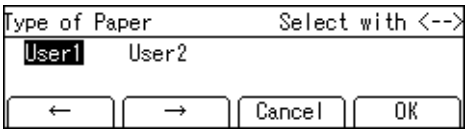
2 **Enter 4 with the number keys, and then press the [OK] or 【#】 key.**

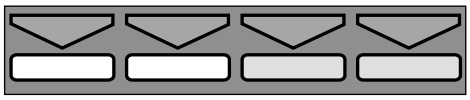


3 **Enter 19 with the number keys, and then press the [OK] or 【#】 key.**



4 **Select [User1] or [User2] with the [←] [→] or 【◁】【▷】 keys.**





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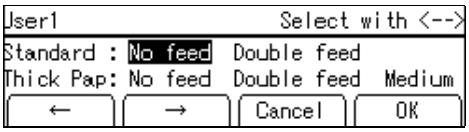
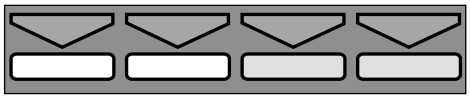
5 **Press the [OK] key.**

6 **Select the paper type and misfeed condition with the [←] or [→] key.**





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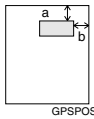
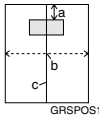
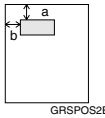
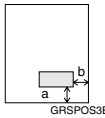
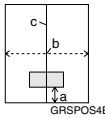
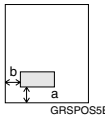
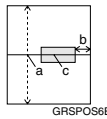
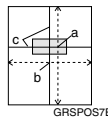
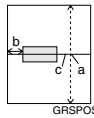
7 **Press the [OK] key.**

8 **Press the [Cancel] key.**

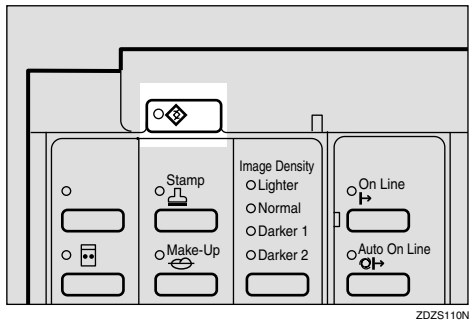
5-4 Stamp Position

Note

❒ The default position and available settings of each stamp are as follows.

Stamp positions	Default	Available settings
 GPSPOS0E	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 – 104mm, 0.32" – 4.16" b = 8 – 144mm, 0.32" – 5.76"
 GRSPOS1E	a = 24mm, 0.96" b = 0mm, 0" c = center line	a = 8 – 104mm, 0.32" – 4.16" b = – 72 – 72mm, – 2.88" – 2.88"
 GRSPOS2E	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 – 104mm, 0.32" – 4.16" b = 8 – 144mm, 0.32" – 5.76"
 GRSPOS3E	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 – 104mm, 0.32" – 4.16" b = 8 – 144mm, 0.32" – 5.76"
 GRSPOS4E	a = 24mm, 0.96" b = 0mm, 0" c = center line	a = 8 – 104mm, 0.32" – 4.16" b = – 72 – 72mm, – 2.88" – 2.88"
 GRSPOS5E	a = 24mm, 0.96" b = 24mm, 0.96"	a = 8 – 104mm, 0.32" – 4.16" b = 8 – 144mm, 0.32" – 5.76"
 GRSPOS6E	a = 0mm, 0" b = 24mm, 0.96" c = center line	a = – 52 – 52mm, – 2.08" – 2.08" b = 8 – 144mm, 0.32" – 5.76"
 GRSPOS7E	a = 0mm, 0" b = 0mm, 0" c = center line	a = – 52 – 52mm, – 2.08" – 2.08" b = – 72 – 72mm, – 2.88" – 2.88"
 GRSPOS8E	a = 0mm, 0" b = 24mm, 0.96" c = center line	a = – 52 – 52mm, – 2.08" – 2.08" b = 8 – 144mm, 0.32" – 5.76"

1 **Press the 【User Tools】 key.**



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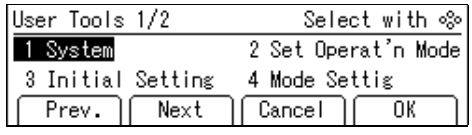
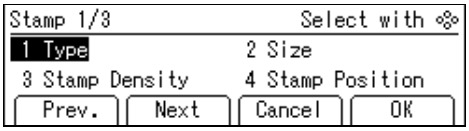
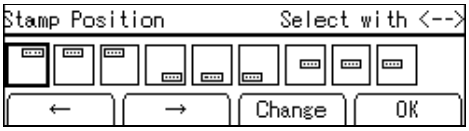
2 **Enter 5 with the number keys, and then press the [OK] or 【#】 key.**

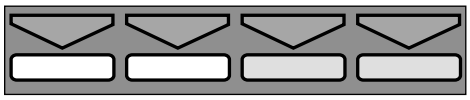


3 **Enter 4 with the number keys, and then press the [OK] or [#] key.**



4 **Select the stamp position you want with the [←] [→] or [◁] [▷] keys.**





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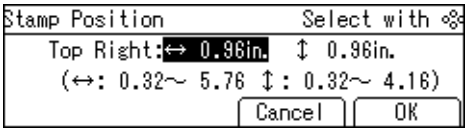
5 **Press the [Change] key.**

6 **Adjust the horizontal stamp position with the [△] or [▽] key, and then press the [▷] key.**



Note

❒ The value increases or decreases in 4mm, 0.16" steps.

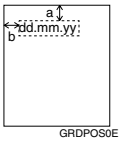
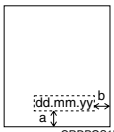
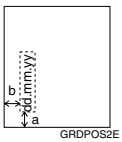
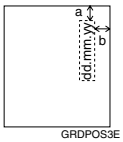
7 **Adjust the vertical stamp position with the [△] or [▽] key.**

8 **Press the [OK] key twice.**

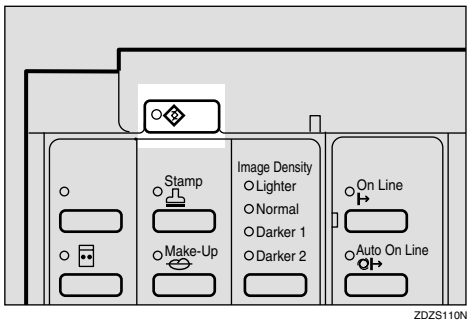
5-7 Position (Date)

Note

❒ The default position and available settings of each date stamp are as follows.

Stamp positions	Default	Available settings
 GRDPOS0E	a = 8mm, 0.32" b = 20mm, 0.80"	a = 8 – 40mm, 0.32" – 1.60" b = 8 – 40mm, 0.32" – 1.60"
 GRDPOS1E		
 GRDPOS2E	a = 20mm, 0.80" b = 12mm, 0.48"	
 GRDPOS3E	a = 20mm, 0.80" b = 8mm, 0.32"	

1 **Press the [User Tools] key.**



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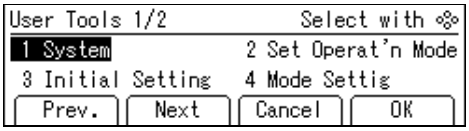
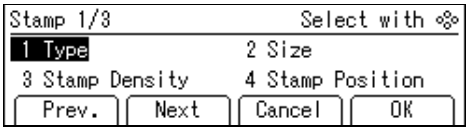
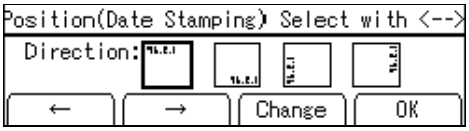
2 **Enter 5 with the number keys, and then press the [OK] or [#] key.**

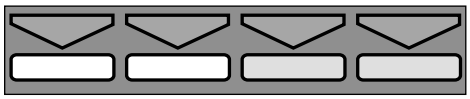


3 **Enter 7 with the number keys, and then press the [OK] or [#] key.**



4 **Select the date stamp position you want to adjust with the [←] [→] or [◁] [▷] keys.**





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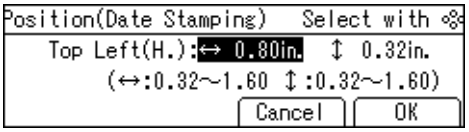
5 **Press the [Change] key.**

6 **Adjust the horizontal date stamp position with the [△] or [▽] key, and then press the [▷] key.**



Note

❒ The value increases or decreases in 4mm, 0.16" steps.

7 **Adjust the vertical date stamp position with the [△] or [▽] key.**

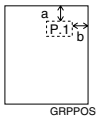
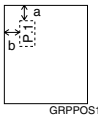
8 **Press the [OK] key twice.**

5-10 Position (Page)

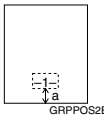
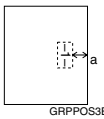
Note

❒ The default position and available settings of each page stamp are as follows.

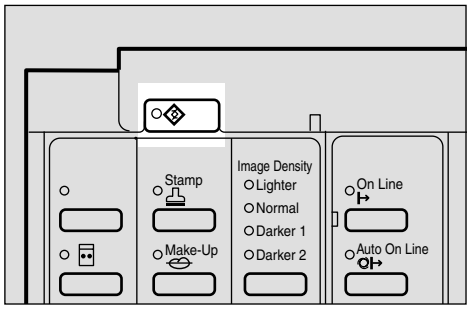
❖ **P1 or 1/5**

Stamp positions	Default	Available settings
 GRPPOS0E	a = 8mm, 0.32" b = 12mm, 0.48"	a = 8 – 40mm, 0.32" – 1.60" b = 8 – 40mm, 0.32" – 1.60"
 GRPPOS1E	a = 12mm, 0.48" b = 12mm, 0.48"	

❖ **-1-**

Stamp positions	Default	Available settings
 GRPPOS2E	a = 8mm, 0.32"	a = 8 – 40mm, 0.32" – 1.60"
 GRPPOS3E	a = 8mm, 0.32"	a = 8 – 40mm, 0.32" – 1.60"

1 Press the 【User Tools】 key.



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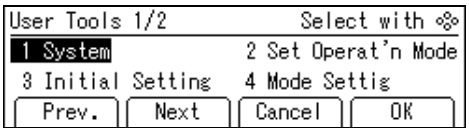
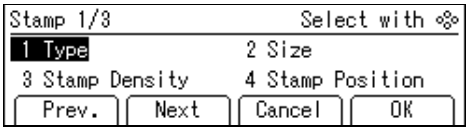
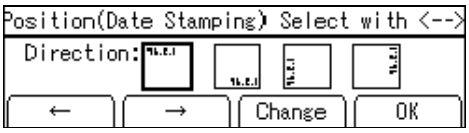
2 Enter 5 with the number keys, and then press the [OK] or 【#】 key.

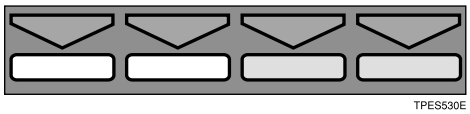


3 Enter 10 with the number keys. Then press the [OK] or 【#】 key.



4 Select the page numbering direction you want to adjust with the [←] [→] or 【◁】【▷】 keys.





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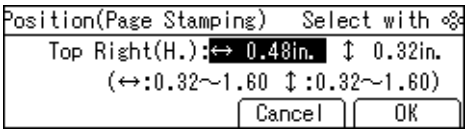
5 Press the [Change] key.

6 Adjust the horizontal page numbering position with the 【△】 or 【▽】 key, and then press the 【▷】 key.



Note

❒ The value increases or decreases in 4mm, 0.16" increments.

7 Adjust the vertical page numbering position with the 【△】 or 【▽】 key.

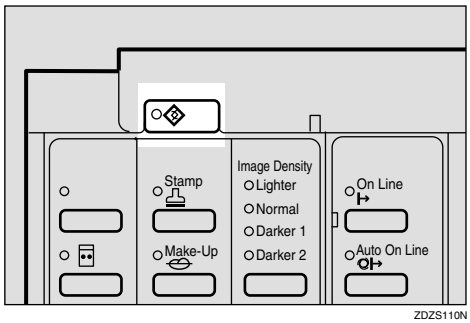
Note

❒ You need not follow step **7** when you select "-1-" as the direction in step **4**.

8 Press the [OK] key twice.

5-11 Make/Chg. Pattern

1 Press the 【User Tools】 key.



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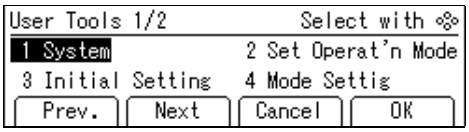
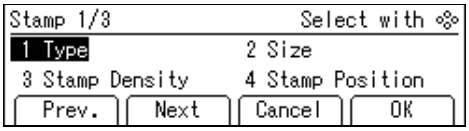
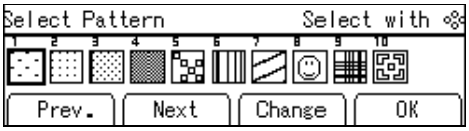
2 Enter 5 with the number keys, and then press the [OK] or 【#】 key.



3 Enter 11 with the number keys, and then press the [OK] or 【#】 key.

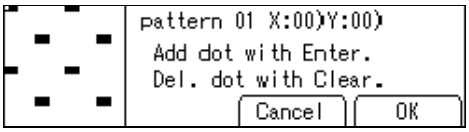


4 Select the background pattern with the 【◁】, 【▷】, 【△】, or 【▽】 key.

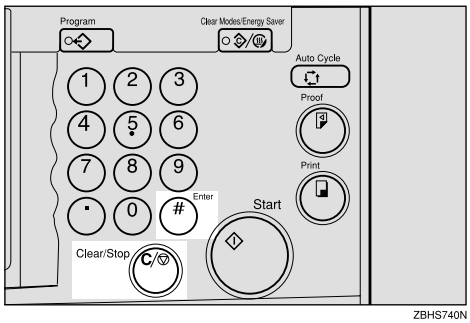


5 Press the [Change] key.

6 Move the cursor to the position you wish to edit with the 【◁】, 【▷】, 【△】, or 【▽】 keys.



7 Press the 【#】 or 【Clear/Stop】 key to edit the pattern.



Note

❒ To add a dot, press the 【#】 key.

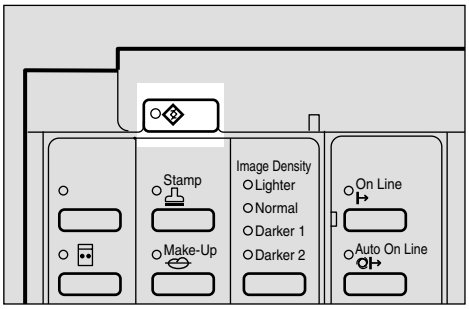
❒ To remove a dot, press the 【Clear/Stop】 key.

❒ Repeat steps **6** and **7** until you have finished editing the pattern.

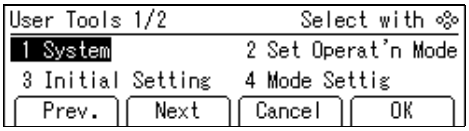
8 Press the [OK] key twice.

6-1 Check Counter

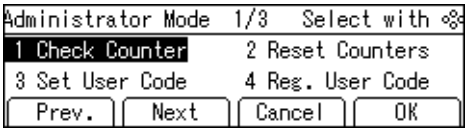
1 Press the 【User Tools】 key.

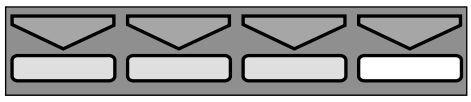


2 Enter 6 with the number keys, and then press the [OK] or 【#】 key.



3 Make sure that 1 is selected, and then press the [OK] key.

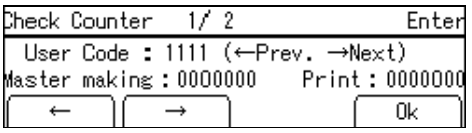


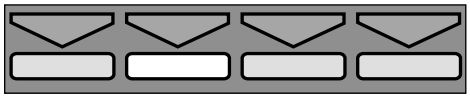


Note

❒ The number of masters and prints made under the first user code will be displayed in the panel display.

4 Keep pressing the [→] or 【▷】 key to display the number of masters and prints made under your user code.





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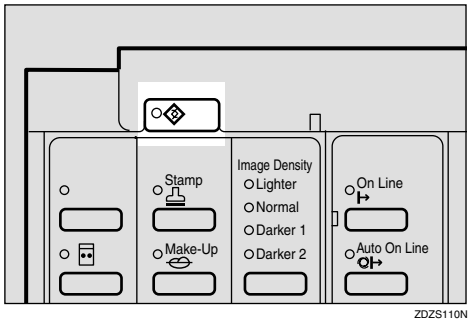
5 Press the [OK] key after checking the number of masters and prints made under your user code.

6-2 Reset Counters

1 Press the 【User Tools】 key.



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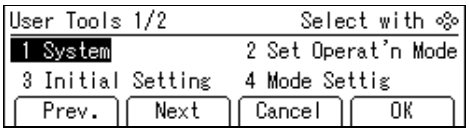
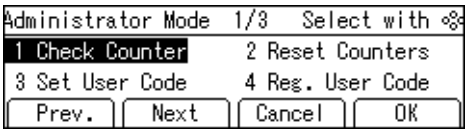
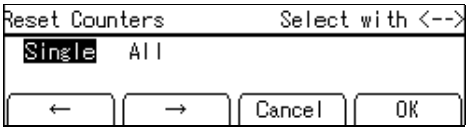
2 Enter 6 with the number keys, and then press the [OK] or 【#】 key.

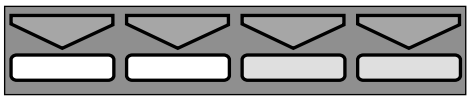


3 Enter 2 with the number keys, and then press the [OK] or 【#】 key.



4 Select [Single] or [All] with the [←] [→] or 【◁】【▷】 keys.





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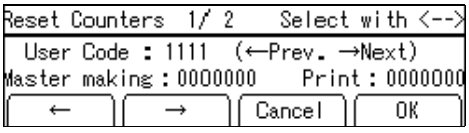
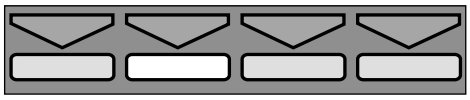
5 Press the [OK] key.

If you selected [Single]

❶ Keep pressing the [→] or 【▷】 key to display the number of masters and prints made under your user code.





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❷ Press the [OK] key.

❸ Press the [Yes] key.

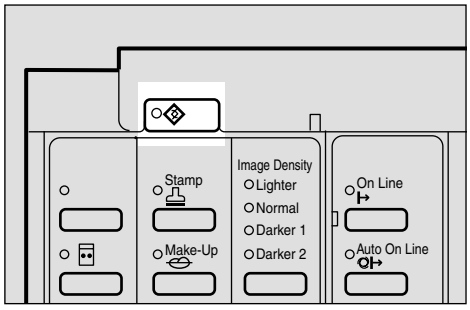
❹ Press the [Cancel] key twice.

If you selected [All]

❶ Press the [Yes] key.

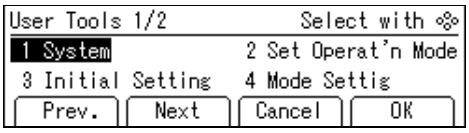
6-5 Chg. User Code

1 Press the 【User Tools】 key.

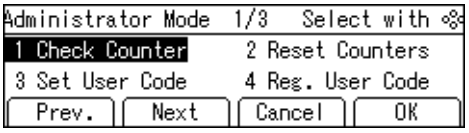


ZDZS110N

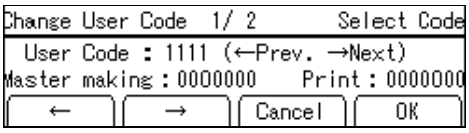
2 Enter 6 with the number keys, and then press the [OK] or 【#】 key.

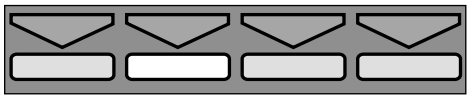


3 Enter 5 with the number keys, and then press the [OK] or 【#】 key.



4 Keep pressing the [→] or 【▷】 key to display your user code.





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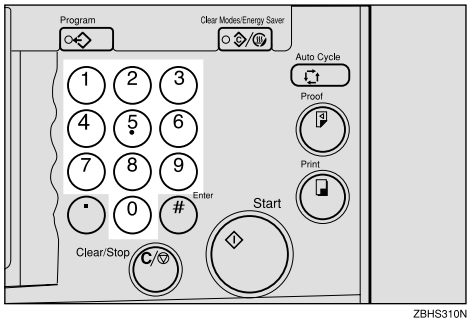
5 Press the [OK] key.

6 Enter the new user code with the number keys.



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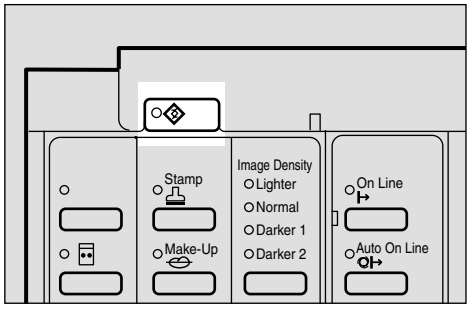
7 Press the [OK] key.

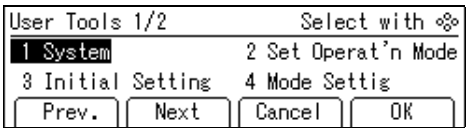
6-6 Del. User Code

1 Press the 【User Tools】 key.

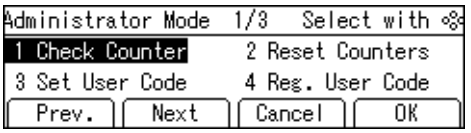


ZDZS110N

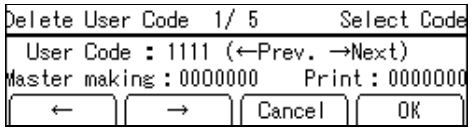
2 Enter 6 with the number keys, and then press the [OK] or 【#】 key.

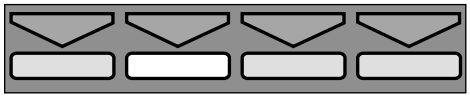


3 Enter 6 with the number keys, and then press the [OK] or 【#】 key.



4 **Keep pressing the [→] or 【▷】 key to display your user code.**





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5 **Press the [OK] key.**

6 **Press the [Yes] key.**

If Your Machine Does Not Operate as You Want

If a malfunction or a misfeed occurs, the following messages will appear on the panel display.

Message	Meaning
Check the original direction.	The paper is not placed in the same direction as the original. Place the original in the same direction as the paper. If you press the 【Print】 key, the selected paper will be used for printing.
Size of original and paper is not the same.	Set a paper size that matches the reproduction ratio you have selected and your original. The reproduction ratio selected by Auto Magnification mode is too big or too small. **Note** ❒ You can make prints if you press the 【Print】 key.
Set original.	Make prints after confirming whether there is an original on the exposure glass. Make sure that you have changed the original on the exposure glass before pressing the 【Start】 key.
Max. quantity: ****	The number of prints exceeds the maximum print quantity. You can change the maximum number of prints that can be made in one operation with the user tools. See "Max. Quantity" on p.144 "2. Set Operat'n Mode".
Min. quantity: ****	The number of prints does not exceed the minimum print quantity. You can change the minimum number of prints that can be made in one operation with the user tools. See "Min. Quantity" on p.144 "2. Set Operat'n Mode".
Drum unit is not set. Set Drum unit.	Slide in the drum until it clicks. Make sure that the drum is completely set in position.
Communication error Turn the main switch off then on	Turn the main switch off and on. If the message appears again, contact your service representative.
Overloaded for the delivery tray Please remove the paper	Remove the paper from the delivery tray. **Reference** See "Delivery Capacity" on p.144 "2. Set Operat'n Mode".

Message	Meaning
Print image is larger than the selected paper size. Change the paper size.	The master image previously printed is larger than the paper, the image exceeds the paper size. Make prints again after pressing the **[Exit]** key and selecting the paper size again. **Note** ❒ If you press the **[Exit]** key to erase the message and press the **[Print]** key, the machine starts to make the prints. However, the image might not fit on the paper.

When a service call message is shown on the panel display

Press the **[Exit]** key. Then turn the main switch off and back on again. If a service code appears again, contact your service representative.

Note

❒ If a service code appears on the panel display after you turn the main switch off and on a few times, do not continue turning it on and off. Leave the machine off.

❒ When you make masters continuously using originals with solid images, "SC-03-03" tends to appear on the panel display. In this case, turn off the main switch and wait for a while. Then turn on the main switch.

If You Cannot Make Prints as You Want

Problem	Cause	Action
Misfeeds occur frequently.	Improper paper type is selected.	Select proper paper type. See p.43 “Printing onto Various Kinds of Paper”.
When you try to set several functions at a time, you cannot set some functions.	Some functions cannot be used together.	See p.137 “Combination Chart”.
Parts of the image are not printed in Edge Erase mode.	Erase margin is too wide.	Set a narrower erase margin with the user tools. See p.158 “3-11 Margin Erase Area”.
	Edge margins of original are too narrow.	
Prints are blank or parts of the image are not printed.	The paper feed side plates are not set correctly.	Make sure that the paper feed side plates touch the paper lightly and the proper paper size is displayed in the panel display.
2nd printing with another drum is unsatisfactory.	The 1st print image is still wet.	Wait until the 1st image becomes dry.
An uneven solid image appears.	Large solid image wrinkles the master.	Increase the print speed or select photo mode.
“Double feed detect at output” is displayed frequently.	The reverse or the face of printed paper is printed again.	Set to “Off” of the “Double Feed Warng” with the user tools.

Combine Originals Mode

Problem	Cause	Action
Prints are blank or parts of the image are not printed.	Original size and direction are not correct.	You cannot use originals of different sizes and directions in Combine Originals mode. Use originals of same size and direction.
Print image is not correct.	Original set order is not correct.	Place originals face up in the optional document feeder. The first original should be on top.
		Place original face down on the exposure glass. The first original should be set first.

Loading Paper

The **Load Paper** indicator (🖴) lights when the paper feed tray runs out of paper.

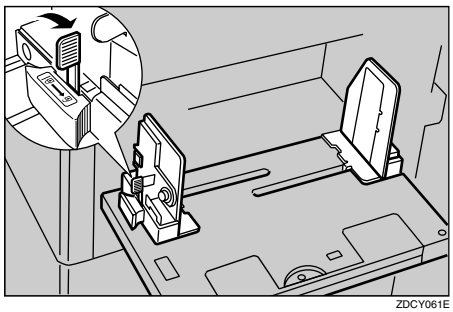
Limitation

❒ Load paper when the paper feed tray is completely empty. If you add paper when some paper is left in the tray, it may cause multiple feeds or misfeeds.

Reference

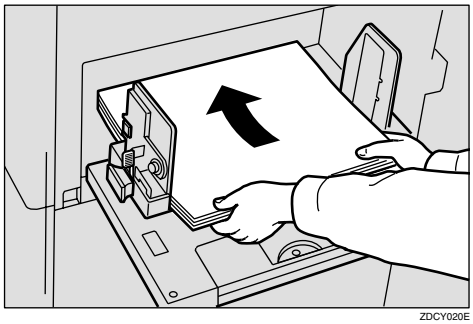
For available paper sizes, see p.11 “Print Paper”.

1 Raise the lock lever for the paper feed side plates to release the lock.



ZDCY061E

2 Load the paper in the paper feed tray.

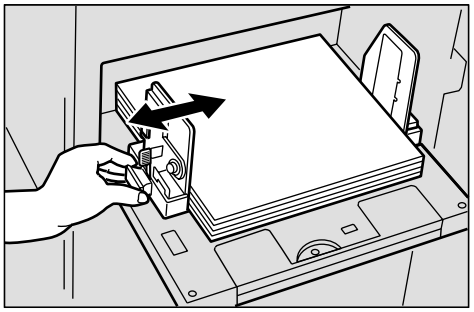


ZDCY020E

Note

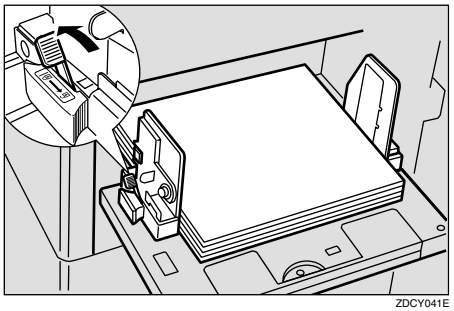
❒ Correct any paper curl before loading the paper.

3 Adjust the paper feed side plates to match the paper size.



ZDCY030E

4 Push the lock lever for the paper feed side plates down to lock the side plates into position.



ZDCY041E

Note

❒ Make sure that the paper size and direction shown on the panel display match the size and direction of paper loaded in the paper feed tray.

Clearing Misfeeds

⚠ ***CAUTION:***

- *Be careful not to cut yourself on any sharp edges when you reach inside the machine to remove misfed sheets of paper or masters.*

Note

❒ After clearing misfeeds, make sure that all the doors, covers, and units are closed and the indicator is off.

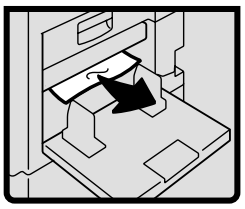
❒ To prevent misfeeds, do not leave any torn scraps of paper, originals, or masters in the machine.

❒ When clearing misfeeds, do not turn off the main switch. If you do, your print settings will be cleared.

❒ If misfeeds occur repeatedly, please contact your service representative.

"+ A" Paper Misfeeds in the Paper Feed Section

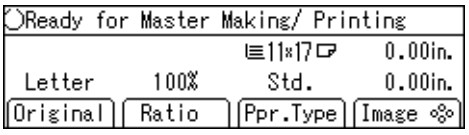
1 **Remove the misfed paper.**

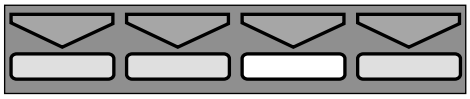


To prevent paper misfeeds:

Check the following before restarting the printing run.

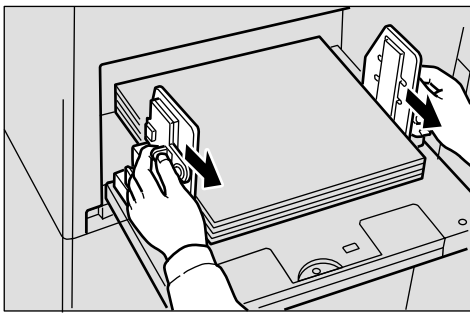
- Did you select an appropriate paper type with the **[Ppr.Type]** key?





TPES520E

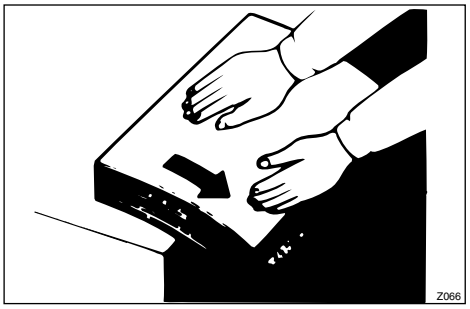
- Are the side pads in the correct positions?



ZDCY140E

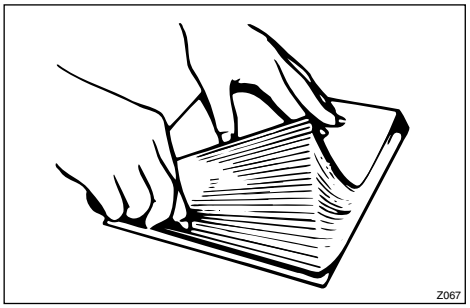
To print on thin paper (47.1g/m^2, 12.5 lb), slide the levers behind the paper feed side plates in the direction of the arrow (see illustration).

- When paper is curled, correct as shown.

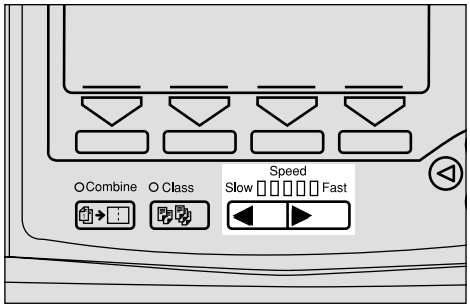


Z066

- When paper edges stick together or paper is not fed in, fan the paper as shown.



- When printing onto postcards or thick paper, lower the printing speed to setting 1 or 2. See p.27 "Changing the Printing Speed".

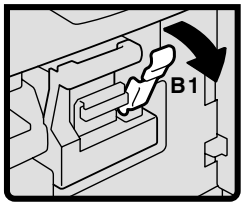


- When a multiple feed occurs or the paper comes out skewed, make sure that the paper feed side plates are properly adjusted. When you load paper on the paper feed tray, make sure that the paper edge touches the back fence and paper is placed on the proper paper size scale. Only use paper where the leading edge has two right angle corners.

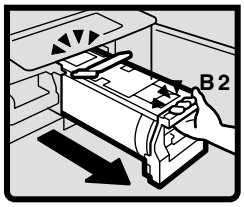
"🔧 + A + B" Paper Misfeeds in the Paper Feed Section

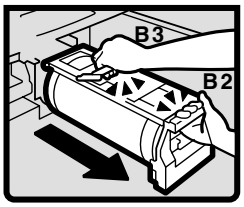
1 **Open the front door.**

2 **Lower drum unit lock lever (B1).**



3 **Take out the drum.**

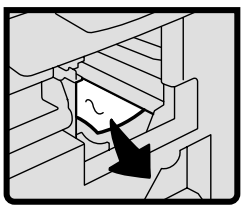




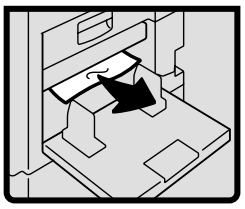
Note

❒ For taking out the drum unit, see p.132 "Changing the Color Drum Unit".

4 **Gently pull out the misfed paper from the inside.**



5 **If you cannot remove the misfed paper, remove it from the paper feed tray.**



6 **Set the drum unit and close the front door.**

Note

❒ For setting the drum unit, see p.132 "Changing the Color Drum Unit".

To prevent paper misfeeds:

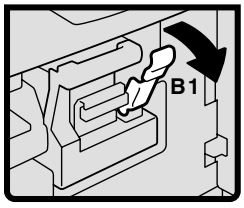
See p.175 ""+ A" Paper Misfeeds in the Paper Feed Section".

"+ B" Paper or Master Wrapped Around the Drum

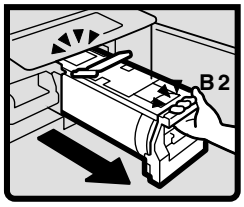
When the master is wrapped around the drum

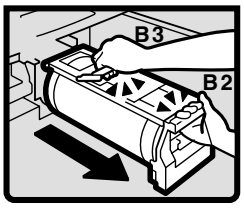
1 **Open the front door.**

2 **Lower drum unit lock lever (B1).**



3 **Take out the drum.**

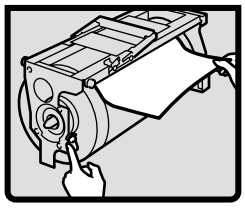




Note

❒ For taking out the drum unit, see p.132 "Changing the Color Drum Unit".

4 **While pressing the drum lock, grasp the edge of the master (the white area) and peel it off.**



5 **Return the drum lock to its original position.**

6 **Set the drum unit and close the front door.**

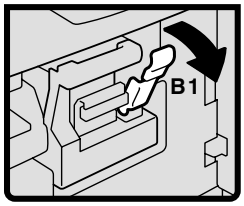
Note

❒ For setting the drum unit, see p.132 "Changing the Color Drum Unit".

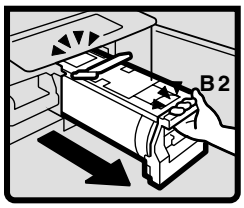
When paper is wrapped around the drum

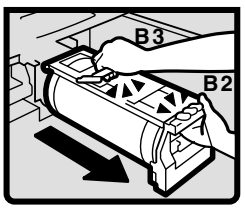
1 **Open the front cover.**

2 **Lower drum unit lock lever (B1).**



3 **Take out the drum.**

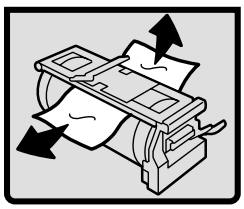




Note

❒ For taking out the drum unit, see p.132 “Changing the Color Drum Unit”.

4 **Remove the misfed paper from the drum.**



5 **If you cannot find misfed paper around the drum (as in step 4), check the pressure cylinder. Remove any misfed paper.**

6 **Set the drum unit and close the front door.**

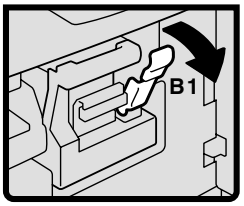
Note

❒ For setting the drum unit, see p.132 “Changing the Color Drum Unit”.

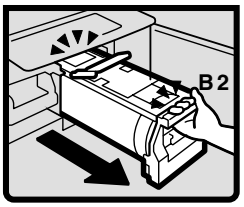
When paper is misfed inside the machine

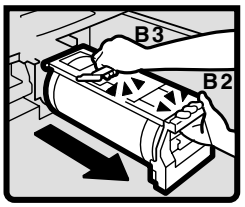
1 **Open the front cover.**

2 **Lower drum unit lock lever (B1).**



3 **Take out the drum.**

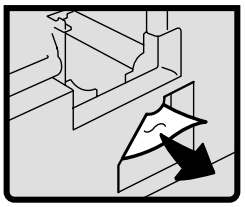




Note

❒ For taking out the drum unit, see p.132 “Changing the Color Drum Unit”.

4 **Remove the misfed paper from the inside as shown in the illustration.**



5 **If you cannot remove the misfed paper, remove paper from the pressure cylinder.**

6 **Set the drum unit and close the front door.**

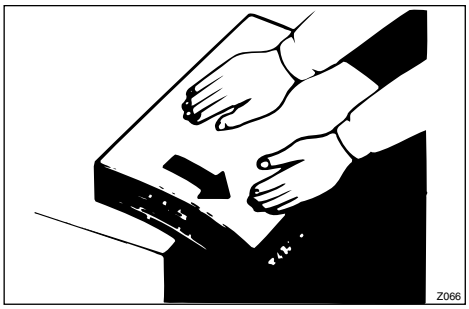
Note

❒ For setting the drum unit, see p.132 "Changing the Color Drum Unit".

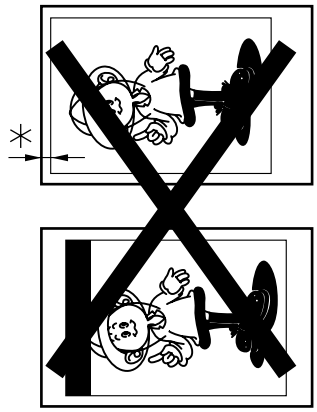
To prevent paper misfeeds:

If the paper is curled or the original's leading edge margin is too narrow, the following action is necessary.

- When you use curled paper, correct as shown.



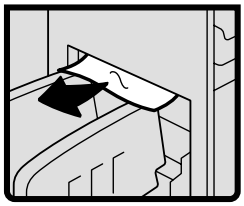
- When the leading edge margin of the original is less than 8mm, 0.32" or there is a solid image on the leading edge, insert the original with the widest margin first or make a leading edge margin by making a copy.



*: Less than 8mm, 0.32"

"Clearing + C" Paper Misfeeds in the Paper Exit Section

1 **Slowly, but firmly pull out the misfed paper.**



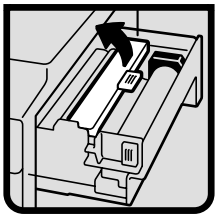
To prevent paper misfeeds:

When thin paper misfeeds in the paper exit section, reduce the printing speed with the 【◀】【▶】【Speed】 keys. See p.27 "Changing the Printing Speed". If you cannot reduce the printing speed, close the trailing edge guides or move the end plate toward the paper delivery tray edge.

"Clearing + D" Master Misfeeds in the Master Feed Section

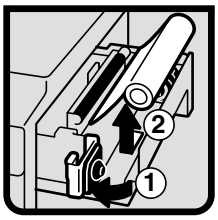
1 **Pull out the master tray until it stops.**

2 **Open the master guide.**



3 **Open the master tray cover (1).**

4 **Remove the master roll (2).**

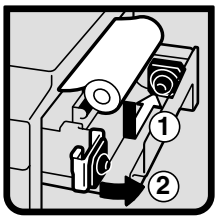


5 **Reset the master roll (1).**

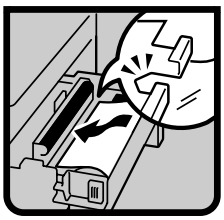
Note

❒ The master roll must be positioned as shown in the illustration in step 6.

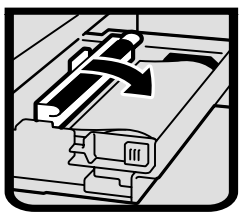
6 **Close the master tray cover (2).**



7 **Position the master roll so that the edge reaches the interior of the master holder.**



8 **Close the master guide.**

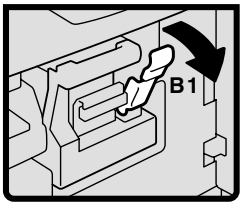


9 **Push in the master tray until it stops.**

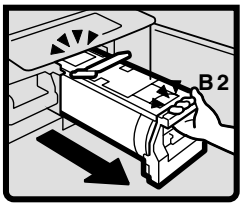
"⚠ + D + B" Master Misfeeds in the Master Feed Section

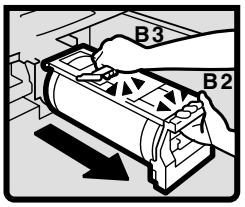
1 **Open the front door.**

2 **Lower drum unit look lever (B1).**



3 **Take out the drum.**

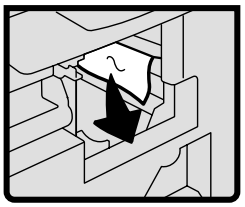




Note

❒ For taking out the drum unit, see p.132 "Changing the Color Drum Unit".

4 **Pull out the misfed master from inside.**



5 **Set the drum unit and close the front door.**

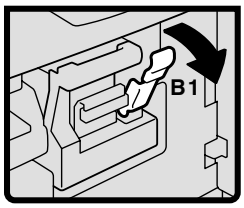
Note

❒ For setting the drum unit, see p.132 "Changing the Color Drum Unit".

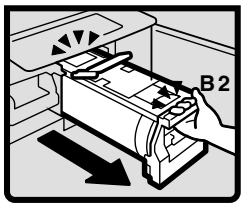
"⚠ + B + E" Master Misfeeds in the Master Eject Section

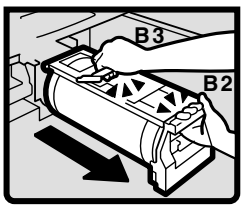
1 **Open the front door.**

2 **Lower drum unit lock lever (B1).**



3 **Take out the drum.**

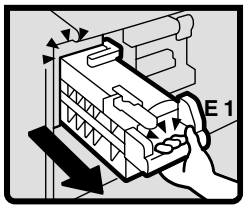




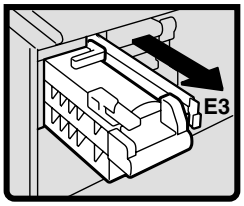
Note

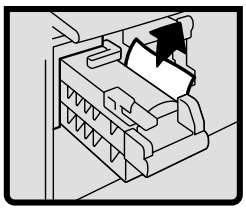
❒ For taking out the drum unit, see p.132 "Changing the Color Drum Unit".

4 **Grasp handle (E1) and pull out the master eject unit until it stops.**



5 **Pull out lever (E3) and remove the misfed master.**





6 **Return lever (E3) and the master eject unit to their original positions.**

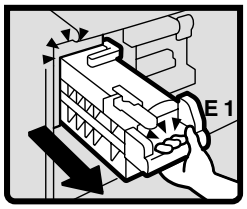
7 **Set the drum unit and close the front door.**

Note

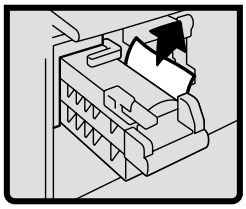
❒ For setting the drum unit, see p.132 "Changing the Color Drum Unit".

"🔧 + E" Master Misfeeds in the Master Eject Section

1. **Open the front door.**
2. **Grasp handle (E1) and pull out the master eject unit until it stops.**



3. **Check where the misfed master is. Remove the misfed master.**

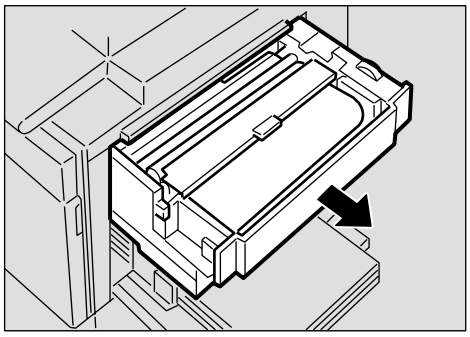


4. **Return the master eject unit to its original position and close the front door.**

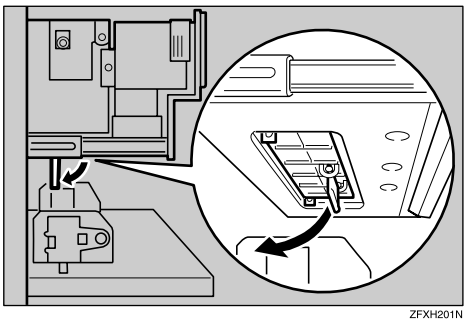
If master misfeeds occur often

If the master misfeeds often, fragments of the master might be left in the bottom of the master tray. Remove the fragments.

1. **Slide out the master tray.**



2. **Open the cover at the bottom of the master tray while holding the lever and remove the fragments.**



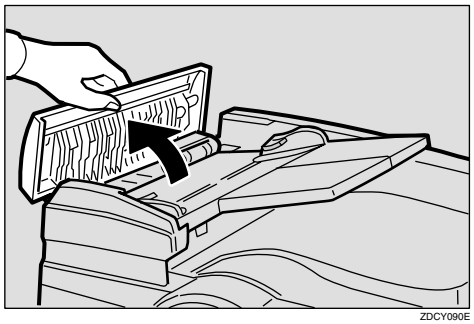
3. **Close the black cover and slide in the master tray.**

Note

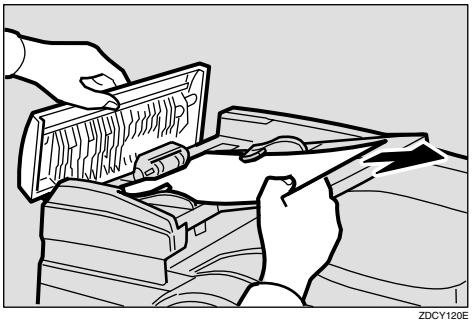
❒ Make sure that you securely close the black cover before sliding in the master tray.

"+ P" Original Misfeeds Occur When Using the Optional Document Feeder

1. **Open the document feeder (ADF) cover.**

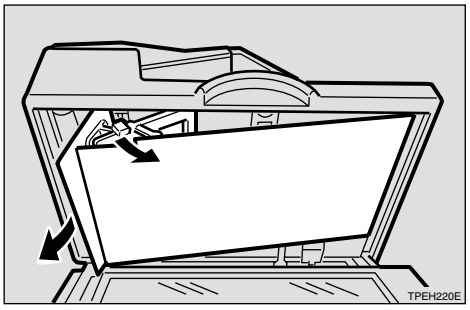

ZDCY090E

2. **Pull out the misfed original gently.**


ZDCY120E

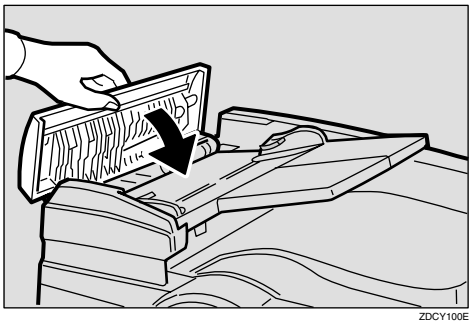
3. **If you cannot remove misfed originals as in step 2, open the document feeder.**

4. **Pull the green knob towards you and remove the misfed original.**


TPEH220E

5. **Return the document feed sheet to its original position.**

6. **Close the document feeder (ADF) cover until it clicks in position and if necessary, close the document feeder.**


ZDCY100E

To prevent originals misfeeding:

Placing the following kinds of originals on the exposure glass may cause misfeeds.

- Originals heavier than 128g/m^2, 34 lb
- Originals lighter than 52g/m^2, 14 lb
- Originals smaller than 148mm × 210mm, 5.9" × 8.3"
- Originals larger than 297mm × 864mm, 11.6" × 34.0"
- Stapled or clipped originals
- Perforated or torn originals
- Curled, folded, or creased originals
- Originals with any kind of coating, such as thermal fax paper, art paper, aluminum foil, carbon paper, or conductive paper
- Bound originals such as books
- Damaged originals
- Originals with glue on them

- Pasted originals
- Originals written in pencil
- Thin originals that have low stiffness
- Originals with index tabs
- Transparent originals such as OHP transparencies or translucent paper

Note

❒ Do not mix different sizes of originals in the optional document feeder.

❒ Remove staples or paperclips from originals. Fan originals that have had staples or paperclips removed.

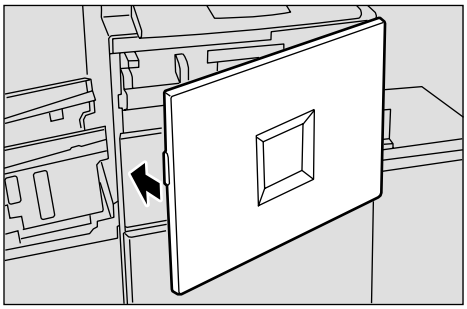
❒ Do not stack originals above the limit mark.

When the Open Cover/Unit Indicator ( ) Lights

Make sure that the following doors/covers are closed.

❖ **Front door**

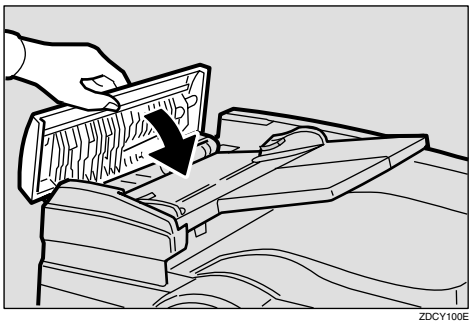
Close the front door completely.



ZFXH110N

❖ **Optional document feeder (ADF) cover**

Close the document feeder (ADF) cover until it locks in position.



ZDCY100E

When the Add Ink Indicator (🖋) Lights

The **Add Ink** indicator (🖋) lights when it is time to supply ink.

⚠ ***CAUTION:***

- *If ink comes into contact with your eyes, rinse immediately in running water. For other symptoms, consult a doctor.*

⚠ ***CAUTION:***

- *Keep the ink or ink container out of reach of children.*

⚠ ***CAUTION:***

- *If ink is ingested, induce vomiting by drinking a strong saline solution. Consult a doctor immediately.*

⚠ ***CAUTION:***

- *Our products are engineered to meet high standards of quality and functionality, and we recommend that you use only the expendable supplies available at an authorized dealer.*

Note

❒ Be sure to supply ink of the same color as the current drum.

❒ Ink is easily removed from skin by waterless hand cleaners followed by washing with soap and water.

❒ Be careful not to get any ink on your clothing.

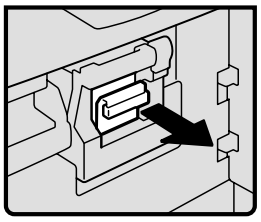
❒ Store ink under low temperature and humidity conditions.

❒ Do not store ink where it will be exposed to heat or direct sunlight.

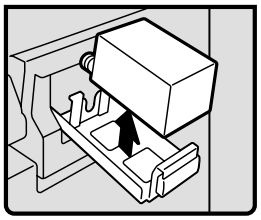
❒ Store on a flat surface.

1 Open the front door.

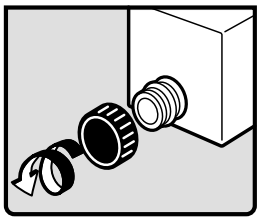
2 Pull out the ink holder.



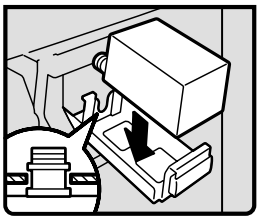
3 **Remove the used ink cartridge.**



4 **Remove the cap of the new ink cartridge.**



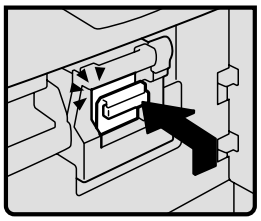
5 **Insert the new cartridge into the ink holder.**



Note

❒ Always supply ink of the same color.

6 **Return the ink holder to its original position until it clicks.**



7 **Close the front door.**

The machine will start idling to supply ink to the drum.

When the Master End Indicator (🖨) Lights

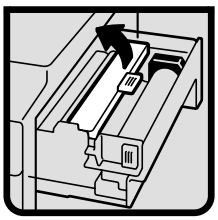
The **Master End** indicator (🖨) lights when it is time to replace the master roll or when you need to set the master roll.

⚠ ***CAUTION:***

- *Our products are engineered to meet high standards of quality and functionality, and we recommend that you use only the expendable supplies available at an authorized dealer.*

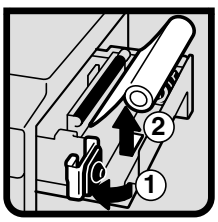
1 **Pull out the master tray until it stops.**

2 **Open the master guide.**



3 **Open the master tray cover (1).**

4 **Remove the used master roll (2).**

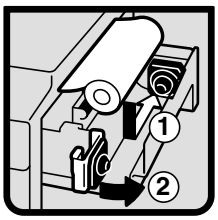


Note

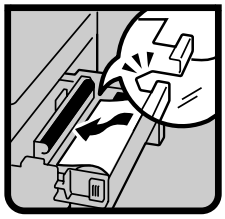
❒ When the **Master End** indicator is lit, it is necessary to replace the master roll even if some master remains on the old roll.

5 **The new master roll must be positioned as shown in the illustration (1).**

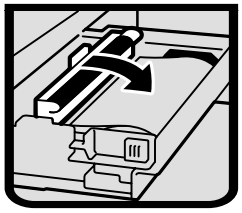
6 **Close the master tray cover (2).**



7 **Position the master roll so that the edge reaches the interior of the master holder.**



8 **Close the master guide.**



9 **Push in the master feed unit until it stops.**

When the Master Eject Indicator (⏏) Lights

The **Master Eject** indicator (⏏) lights when it is time to empty the master eject unit or when you need to set the master eject unit.

Note

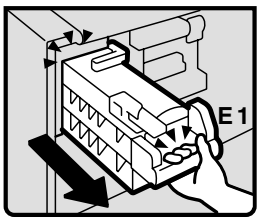
❒ Ink is easily removed from skin by waterless hand cleaners followed by washing with soap and water.

❒ Be careful not to get any ink on your clothing while emptying the master eject unit.

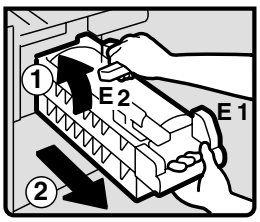
1 **Prepare a container for the used master.**

2 **Open the front door.**

3 **Use handle (E1) to pull out the master eject unit until it stops.**

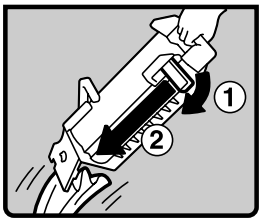


4 **Pull up handle (E2) and pull out the master eject unit completely.**



5 **Hold the master eject unit upper handle and turn it clockwise with one hand while holding handle (E1) with other hand (1).**

6 **Remove the used master by pushing down the handle (1) towards the waste container (2).**



Note

❒ If you cannot remove the used master completely, repeat step **6** until all the master is removed.

7 **Reinstall the master eject unit, making sure it clicks into position.**

8 **Close the front cover.**

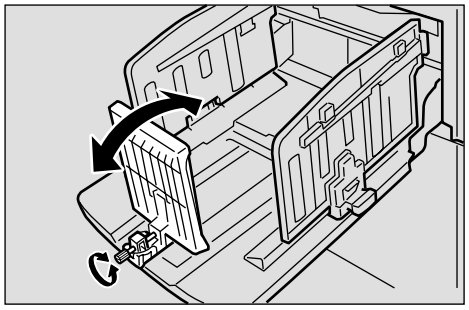
When Other Indicators Are Lit

Indicator	Meaning and action
TPES270E	The key counter (option) is not set. Insert the key counter.
• (Metric version) TPES280E • (Inch version) TPES280N	Color drum unit is installed.
• (Metric version) TPES290E • (Inch version) TPES290N	A3/11" × 17" drum unit is set.
• (Metric version) TPES300E • (Inch version) TPES300N	A4/8$^{1}/_{2}$" × 11" drum unit is set.

When Prints Are Not Delivered in a Neat Stack

When Printing on Small Size Paper

1 **Adjust the angle of the end plate by turning the screw clockwise or counterclockwise.**

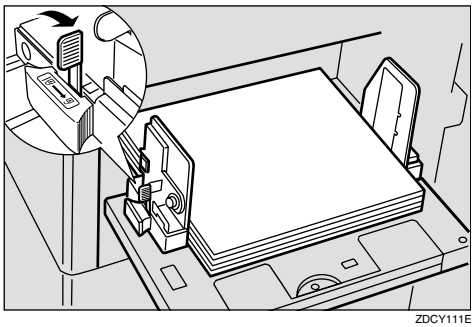


ZDCH150E

When the Machine Cannot Detect the Paper Size

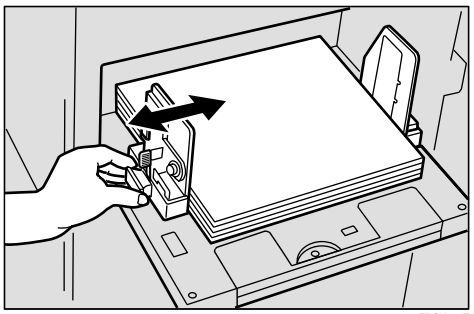
If the paper size is not detected correctly when printing, prints might not be delivered in a neat stack. To solve this, do one of the following:

1 **Raise the lock lever for the paper feed side plates to release the lock.**



ZDCY111E

2 **Re-adjust the paper feed side plates so that there is no space between the side plates and the paper, and then lock the side plates in position.**



ZDCY030E

Note

❒ Make sure that the paper size and direction in the panel display match the actual paper size and direction of the paper on the feed tray.

❒ If the paper on the paper feed tray has a solid image on its back side, the machine may not be able to detect the size correctly. Place a sheet of paper of the same size without an image on the back at the bottom of the paper stack.

Poor Printing

Dirty Background

If the background of prints is dirty, the drum unit might be dirty.

⚠ ***CAUTION:***

- *If ink comes into contact with your eyes, rinse immediately in running water. For other symptoms, consult a doctor.*

⚠ ***CAUTION:***

- *Keep the ink or ink container out of reach of children.*

⚠ ***CAUTION:***

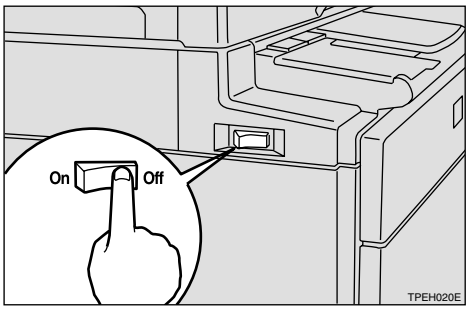
- *If ink is ingested, induce vomiting by drinking a strong saline solution. Consult a doctor immediately.*

Note

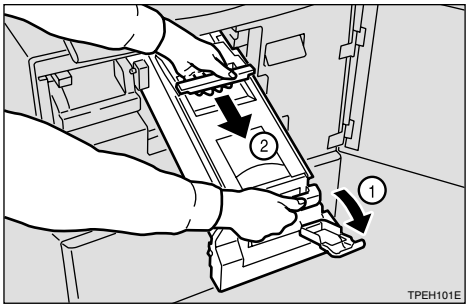
❒ To avoid getting dirty background prints when printing onto paper smaller than the original image, select a suitable reduction ratio or use larger print paper.

❒ When printing onto paper that does not absorb ink well, like postcards, the background of prints might be dirty. In this case, lower the printing speed or use Skip Feed mode to dry the ink on the prints.

1 **Turn off the main switch.**



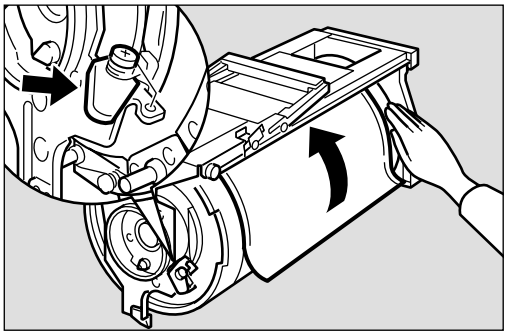
2 **Pull out the drum unit.**



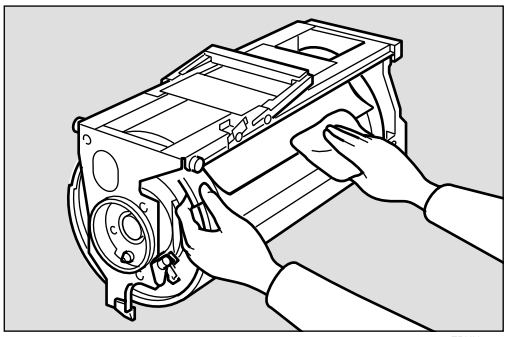
Note

❒ For taking out the drum unit, see p.132 “Changing the Color Drum Unit”.

3 **While pressing the drum lock, turn the drum until you can see the trailing edge of the master.**



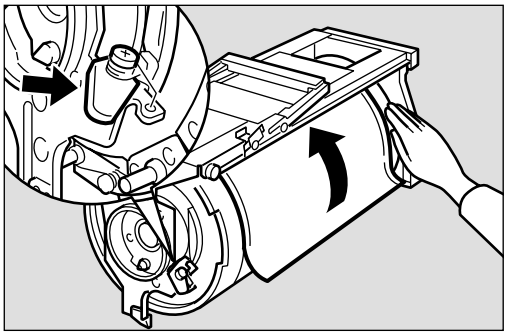
4 **With a dry soft cloth, remove any ink that has accumulated on the trailing edge of the drum unit.**



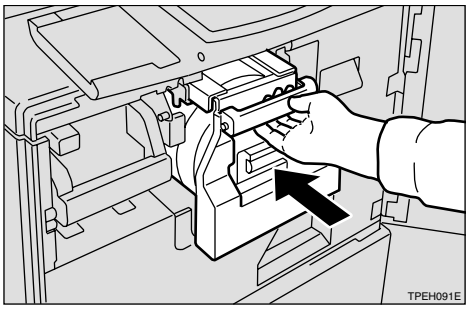
Important

❒ Do not use benzine, thinner, or other organic liquids—doing so can damage the machine.

5 **Turn the drum unit and lock it after cleaning.**

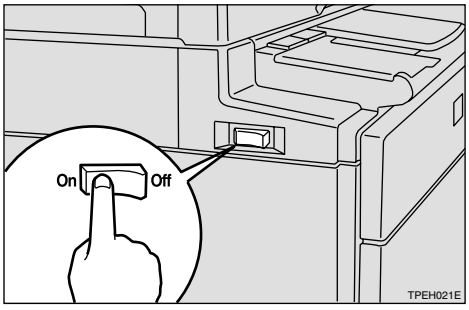


6 **Insert the drum unit until it locks into position, and then lower the drum unit lock lever.**



7 **Close the front door.**

8 **Turn on the main switch.**



Black Lines/Stained Prints

Check the platen cover and clean it if dirty. See p.201 “Cleaning the platen cover”.

Check the exposure glass and clean it if dirty. See p.201 “Cleaning the exposure glass”.

Check the sheet of the optional document feeder and clean it if dirty. See p.202 “Cleaning the Sheet”.

Note

❒ If black lines or stains still appear on prints even following the cleaning procedures above, please contact your service representative.

Faint Prints

If the machine is not used for a long period of time or you change the color drum unit, the ink on the drum might dry causing print quality to deteriorate. To solve this problem, use Quality Start mode. See p.77 “Quality Start Mode”.

If the print density is still too light even if you use Quality Start mode, remake the master.

Do's and Don'ts

⚠ ***CAUTION:***

- *Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.*

Important

❒ Make sure that the ➔ indicator on the PC controller operation panel is off before unplugging the power cord.

- While printing, do not turn off the main switch.
- While printing, do not unplug the power cord.
- While printing, do not open the door or covers.
- While printing, do not move the machine.
- Open and close all doors and covers carefully.
- When printing onto paper that contains images on the back, make sure there is a 10mm (0.4") margin at the back leading edge. If there is no margin, the machine might wrongly detect that paper is wrapped around the drum and stop printing.
- When you use envelopes or pasted print paper, the leading edge of the prints might be damaged.
- Always make a few trial prints to check the image position because the image position of the trial print might not correspond with that of the original.
- The leading edge of the prints might become stained if the edge touches the image of prints on the paper delivery tray.
- Print ink on the paper delivery tray might stick to the back side of the next print.
- Press the 【**Proof**】 key to perform a test print as the image density of the first few prints might be light.
- When the machine is on and the power source is less than 90% of the specified amount, printing quality will decrease. Therefore, make sure the supply from your electrical outlet is at least 90% of the required amount.
- When you make a lot of prints from a small image, ink might ooze out from the edges of the master, especially in high temperatures and when printing in two or more colors. In these cases, make a new master.
- Remove the paper from the tray before relocating the machine. If you relocate the machine leaving the paper on the tray, reset the paper after the relocation. If the main switch of the machine is turned on without resetting the paper correctly, the sensor might be broken.

- If the printed paper is stored for more than one day, the paper may become wrinkled. If this paper is used, wrinkles may also appear on the master. If the paper will be stored for more than one day, store it in its original wrapping paper or other protective covering.
- Shadowing may occur if the printed image at the rear edge of the paper is a solid color, when the printing speed is set to 1. If this occurs, print the image with the printing speed set to 3.
- If there are fine lines within 5mm to 10mm, 0.2" to 0.4" of the edge of the image, shadowing may occur.
- Depending on the type of paper being used, speckles may appear within 5mm to 10mm, 0.2" to 0.4" of the edge of the image at around 1000 prints.
- When two or more sheets of paper feed at once, you can select whether the warning message is displayed or not. Set to "On" of the "Double Feed Warng" with the user tools. See p.82 "Double Feed".
- When two or more sheets of paper feed at once, set paper on the paper feed side plates securely. See p.15 "Printing Preparations".
- When paper misfeeds occur, select the proper paper type from **[Ppr.Type]**. See p.43 "Printing onto Various Kinds of Paper". If the problem persists, fan or turn the paper over.
- If the paper skews, make sure to set the paper feed side plates securely. See p.15 "Printing Preparations".
- Make sure originals on the exposure glass are correctly positioned and aligned with the scale.
- If the edges of the paper are rounded, skewing might occur. Change the paper's orientation or replace.
- If the paper becomes creased, make sure the correct paper type has been selected **[Ppr.Type]**. See p.43 "Printing onto Various Kinds of Paper".
- If non-standard papers crease frequently, use the standard paper type.

Where to Put Your Machine

Environment

Your machine's location should be carefully chosen because environmental conditions greatly affect its performance.

Optimum environmental conditions

⚠ ***CAUTION:***

- *Keep the machine away from humidity and dust. Otherwise a fire or an electric shock might occur.*
- *Do not place the machine on an unstable or tilted surface. If it topples over, an injury might occur.*

⚠ ***CAUTION:***

- *If you use the machine in a confined space, make sure there is a continuous air turnover.*

⚠ ***CAUTION:***

- *After you move the machine, use the caster fixture to fix it in place. Otherwise the machine might move or come down to cause an injury.*

- Temperature: 10 – 30°C, 50 – 86°F
- Humidity: 20 – 90% RH
- A strong and level floor.
- The machine must be level within 5mm, 0.2" both front to rear and left to right.

Environments to avoid

- Locations exposed to direct sunlight or strong light (more than 1500 lux).
- Locations directly exposed to cool air from an air conditioner or heated air from a heater (sudden temperature changes might cause condensation within the machine).
- Places where the machine might be subjected to frequent strong vibration.
- Dusty areas.
- Areas with corrosive gases.

Power Connection

⚠ ***WARNING:***

- ***Connect the machine only to the power source described on the inside front cover of this manual. Connect the power cord directly into a wall outlet and do not use an extension cord.***
- ***Do not damage, break or make any modifications to the power cord. Do not place heavy objects on it. Do not pull it hard nor bend it more than necessary. These actions could cause an electric shock or fire.***

⚠ ***CAUTION:***

- *Unplug the power cord from the wall outlet before you move the machine. While moving the machine, you should take care that the power cord will not be damaged under the machine.*

⚠ ***CAUTION:***

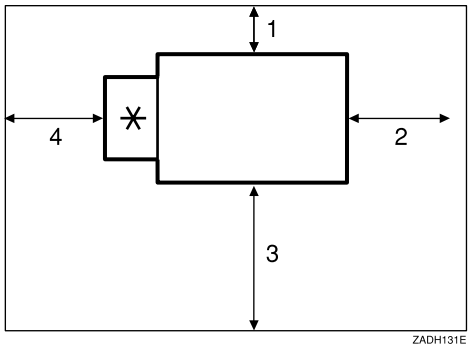
- *When you disconnect the power plug from the wall outlet, always pull the plug (not the cable).*

Make sure the plug is firmly inserted in the outlet.

Machine Clearance

Place the machine near the power source, providing clearance as shown.

❖ **Main frame**



* Paper delivery tray

1. More than 10cm, 4.0"
2. More than 60cm, 23.7"
3. More than 60cm, 23.7"
4. More than 60cm, 23.7"

Maintaining Your Machine

To maintain high print quality, clean the following parts and units regularly.

❖ **Cleaning the machine**
Wipe the machine with a soft, damp cloth. Then wipe it with a dry cloth to remove the water.

Important

❒ Do not use chemical cleaner or organic solvents, such as thinner or benzene. If they get into the machine or melt plastic parts, a failure might occur.

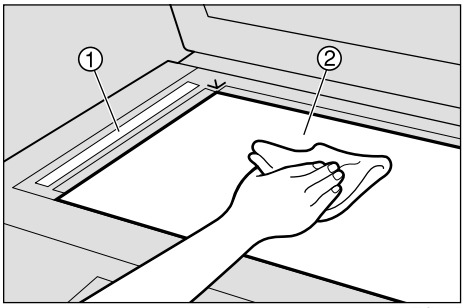
❒ Do not clean parts other than those specified in this manual. Such parts should be cleaned by your service representative.

Cleaning the Main Frame

Cleaning the exposure glass

1 **Lift the platen cover or document feeder.**

2 **Clean ① and ②.**

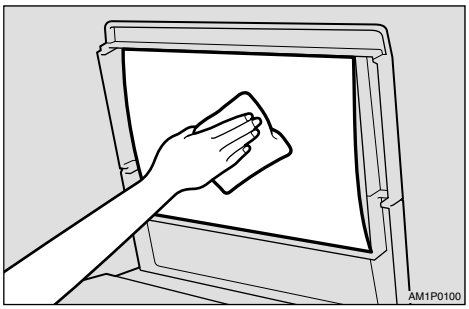


ZDCH130E

Cleaning the platen cover

1 **Lift the platen cover.**

2 **Clean the platen cover with a damp cloth and wipe it with a dry cloth.**

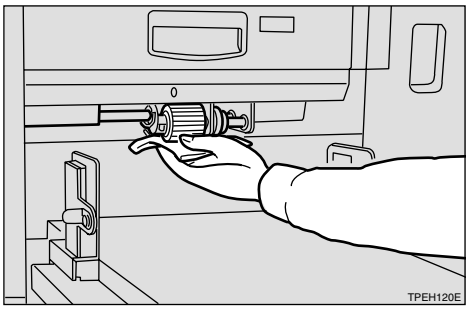

AM1P0100

Note

❒ If you do not clean the platen cover, marks on the cover will be printed.

Cleaning the paper feed roller (Paper feed tray)

1 **Wipe dust off the paper feed roller with a damp cloth, and then wipe it with a dry cloth.**


TPEH120E

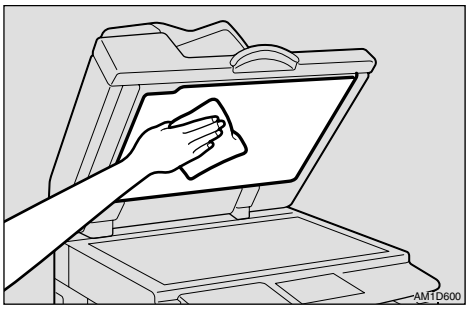
Note

❒ If you do not clean the paper feed roller, paper misfeeds tend to occur.

Cleaning the Optional Document Feeder

Cleaning the Sheet

1. **Lift the document feeder.**
2. **Clean the sheet with a damp cloth and wipe it with a dry cloth.**



Note

❒ If you do not clean the sheet, marks on the sheet will be printed.

Main Frame

❖ **Configuration:**
Floor standing (with custom table or cabinet).

❖ **Printing Process:**
Full automatic one drum system

❖ **Original Type:**
Sheet/Book

❖ **Original Size:**
Maximum 305mm × 432mm, 12.0" × 17.0"

❖ **Pixel Density:**
600dpi

❖ **Image Mode:**
Photo mode
Letter mode
Letter/Photo mode
Pencil mode
Tint mode

❖ **Reduction Ratios:**

- Inch version:
  93%, 77%, 74%, 65%
- Metric version:
  93%, 87%, 82%, 71%

❖ **Enlargement Ratios:**

- Inch version:
  155%, 129%, 121%
- Metric version:
  141%, 122%, 115%

❖ **Zoom:**
From 50% to 200% in 1% steps

❖ **Directional Magnification:**

- Vertical:
  From 50% to 200% in 1% steps
- Horizontal:
  From 50% to 200% in 1% steps

❖ **Printing Area:**

- A3 drum:
  - Inch version: More than 290 × 420mm, 11.4" × 16.5"
  - Metric version: More than 290mm × 410mm, 11.4" × 16.1"
- A4 drum:
  More than 290mm × 200mm, 11.4" × 7.8"

❖ **Print Paper Size:**
Maximum recommended: 297mm × 432mm, 11.6" × 17.0" (Maximum: 320mm × 447mm, 12.6" × 17.6")
Minimum: 70mm × 148mm, 2.8" × 5.8"

❖ **Leading Edge Margin:**
Less than 8mm, 0.32"

❖ **Print Paper Weight:**

- 47.1 – 209.3g/m^2, 12.5 – 55.6 lb

❖ **Print Speed:**
60 – 120rpm (5 steps)

❖ **First Copy Time (Master Process Time):**
Less than 31 seconds (A3, 11" × 17"⊐)
Less than 25 seconds (A4, $8^1/_2$" × 11"⊐)

❖ **Second Copy Time (First Print Time):**
Less than 32 seconds (A3, 11" × 17")
Less than 26.5 seconds (A4, $8^1/_2$" × 11")

❖ **Color Printing:**
Drum unit replacement system

❖ **Image Position:**

- Vertical:
  - Inch version: ± 10mm, ± 0.4"
  - Metric version: ± 15mm, ± 0.6"
- Side:
  ± 10mm, ± 0.4" (for either side)

❖ **Paper Size and Paper Capacity:**
1,000 sheets (80g/m^2, 20 lb)

❖ **Paper Delivery Tray Capacity:**
1,000 sheets (80g/m^2, 20 lb)

❖ Master Eject Unit Capacity:

- A3 drum
  More than 70 masters
- A4 drum
  100 masters

❖ Dimensions (W × D × H)

	Width	Depth	Height
Stored	730mm, 28.8"	700mm, 27.6"	585mm, 23"
Stored with document feeder	730mm, 28.8"	700mm, 27.6"	695mm, 27.4"
Set up	1435mm, 56.5"	700mm, 27.6"	585mm, 23"
Set up with cabinet	1435mm, 56.5"	700mm, 27.6"	1,020mm, 40.2"
Set up with cabinet and document feeder (when you use A3, 11" × 17" or larger paper)	1435mm, 56.5"	700mm, 27.6"	1,130mm, 44.5"

❖ Weight:

- Machine:
  Less than 105kg, 231.5 lb

❖ Noise Emission *1

Sound power level

	Mainframe only
Stand-by	--
During printing	120cpm

Sound pressure level *2

	Mainframe only
Stand-by	--
During printing	120cpm

*1 The above measurements made in accordance with ISO 7779 are actual value.
*2 It is measured at the position of the operator.

❖ Power Consumption:

- Making a master:
  Less than 0.26kW
- Printing:
  Less than 0.25kW

❖ Optional Equipment:

- Drum unit: Color Drums
  Type 80(L) A3, 11" × 17"
  Type 80(S) A4, $8^{1}/_{2}$" × 11"
- Key Counter
- Document Feeder
- PC Controller

Note

❒ Specifications are subject to change without notice.

Document Feeder (Option)

❖ **Original Type:**
Sheet

❖ **Original Weight:**
52.3g/m^2 to 127.9g/m^2, 13.9 lb to 34 lb

❖ **Original Size:**
Max. 297mm × 864mm, 11.7" × 34.0"
Min. 149mm × 210mm, 5.9" × 8.3"

❖ **First Copy Time (Master Process Time):**
Less than 34 seconds (A3, 11" × 17")
Less than 28.5 seconds (A4, $8^1/_2$" × 11")

❖ **Second Copy Time (First Print Time):**
Less than 35 seconds (A3, 11" × 17")
Less than 30 seconds (A4, $8^1/_2$" × 11")

❖ **Original Capacity:**
50 sheets (80g/m^2, 20 lb)
7.5mm, 0.3" height

Color Drum Type 80(L) A3, 11" × 17" (Option)

Color Drum Type 80(S) A4, $8^1/_2$" × 11" (Option)

Exposure Glass Cover (Option)

Printer Unit Type 80 RCP80 (Option)

Interface Cable Type 85 (Option)

Editing Function Type 85 (Option)

PC Controller (Option)

Key Counter (Option)

Twin Color Press Roller Printing System TC-II (Option)

❖ **Configuration:**
Floor standing (with custom table or cabinet)

❖ **Printing Process:**
Twin color press roller printing system

❖ **Print Paper Size:**
Maximum: 297mm × 432mm, 11.6" × 17.0"
Minimum: 70mm × 250mm, 2.8" × 9.8"

❖ **Print Paper Weight:**

- 52.3 – 209.3g/m^2, 13.9 – 55.6 lb

❖ **Print Speed:**
90–120cpm (3 steps)

❖ **Color Printing:**
Drum unit replacement system

❖ **Paper Size and Paper Capacity:**
1,000 sheets (80g/m^2, 20 lb)

❖ **Paper Delivery Tray Capacity:**
1,000 sheets (80g/m^2, 20 lb)

❖ **Dimensions (W × D × H)**

	Width	Depth	Height
Stored	920 mm, 36.2"	630 mm, 24.8"	555 mm, 21.9"
Set up	1,610 mm, 63.4"	630 mm, 24.8"	555 mm, 21.9"

❖ **Weight:**

- Machine:
  Less than 88kg, 194 lb

❖ **Power Consumption:**

- Printing:
  0.55kW(Max)

❖ **Optional Equipment:**

- Drum unit: color Drums
  A3, 11" × 17"

Note

❒ Specifications are subject to change without notice.

Consumables

Name	Size	Remarks
Master:	Length: 140m, 520ft/roll Width: 320mm, 12.6" 2 Rolls/case	A3 drum More than 255 masters can be made per roll A4 drum 410 masters can be made per roll
Ink-Black	1,000ml/pack	Environmental conditions: -5 to 40°C 10 – 95% RH
Ink-Red	1,000ml/pack	
Ink-Blue		
Ink-Green		
Ink-Brown		
Ink-Purple		
Ink-Yellow		
Ink-Navy		
Ink-Maroon		
Ink-Teal		
Ink-Orange		
Ink-Gray		
Ink-Violet		
Ink-Hunter green		
Ink-Burgundy		
Ink-Gold		
High Density Ink-Black		
High Density Ink-Blue		
High Density Ink-Green		
High Density Ink-Reflex Blue		
High Density Ink-Red		
High Density Ink-Navy		
High Density Ink-Teal		

Note

❒ Specifications are subject to change without notice.

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